DESCRIPTION

NOVEL PARA-TERPHENYL COMPOUNDS

Technical Field

The present invention relates to a novel para-terphenyl compound, a process for producing the same, a selective suppressor of the IgE production, an immunosuppressor and an anti-allergic agent.

Background Art

A serious problem of a transplantation of a tissue or an organ which is frequently performed in recent years is a rejection symptom for excluding a transplanted part after an operation. Prevention of the rejection symptom is very important for a success of the transplantation.

Various immunosuppressors such as azathioprine, corticoid, Cyclosporin A,

Tacrolimus and the like are developed and come into practical use for prevention and a

treatment of a rejection symptom against a transplantation of an organ or a tissue or a

graft-versus-host reaction which is caused by a bone marrow transplantation. But they

are not so satisfactory in view of their effects and side effects.

Allergic diseases such as atopic dermatitis, allergic rhinitis, bronchial asthma, allergic conjunctivitis and the like globally tend to increase in recent years and become serious problems. The conventional antiinflammatory agents are suppressors of releasing chemical mediators from mast cells, receptor inhibitors of the chemical mediators released, suppressors of allergic inflammation reaction or the like. All of these are agents for symptomatic therapy and are not fundamental therapeutic agents for allergic diseases.

As an fundamental therapeutic agent for allergic diseases, a suppressor of the IgE antibody production has been expected.

One of compounds which have a suppressive effect on the IgE production is Suplatast Tosilate (IPD-1151-T). This is reported to act on T cell of type 2 (Th2 cell) to suppress the IL-4 production and to suppress a differentiation of B cells to IgE antibody-producing cells (Jpn. Pharmacol. (1993) 61, 31-39).

As compounds which directly act on B cells to suppress the IgE antibody production, for example, DSCG (Intal) or Nedcromil sodium which are degranulation inhibitors of mast cells are exemplified. These are reported to inhibit a class-switch of B cells (J. Exp. Med. (1994) 180: 663-671, J. Allergy Clin. Immunol.(1996) 97: 1141-1150). In J. Med. Chem. (1997) 40: 395-407, a compound which directly acts on B cells to suppress the IgE production is described.

Because immune globulins are necessary for phylaxis and a suppression of immune globulins other than IgE antibody is not preferable, an inhibitor which has a high selectivity to IgE and a potent effect has been desired.

The compounds which have an antiinflammatory effect and ortho-terphenyl structure are described in JP-A 60-13730, J. Med. Chem.(1996) 39: 1846-1856 and WO96/10012, and the compounds which have the same effect and biphenyl structure are described in JP-B 43-19935, JP-A 62-294650 and WO96/18606.

The compounds which have para-terphenyl structure are described in Chemical & Pharmaceutical Bulletin, 24 (4), 613-620 (1976), The Journal of Antibiotics, 32 (6), 559-564 (1979) and Agricultural Biological Chemistry, 49 (3), 867-868 (1985) but an immunosuppressive or antiinflammatory effect of these compounds is not described at all.

Disclosure of Invention

An object of the present invention is to provide a selective suppressor of the IgE production, an immunosuppressor, and/or an anti-allergic agent which has a potent suppressive effect on the IgE production, an immunosuppressive effect and/or an anti-allergic effect. Other object of the present invention is to provide novel compounds which have the above effects and a process for producing the same.

The present invention provides a selective suppressor of the IgE production, an immunosuppressor and/or an anti-allergic agent comprising a compound which suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody and which does not suppress or weakly suppresses the production of IgG, IgM and/or IgA which are produced at the same time. The present invention provides a method for selectively suppressing the IgE production or for suppressing an immune reaction or a method for treating and/or preventing allergic diseases comprising administering the compound. In another embodiment, the present invention provides use of the compound for the manufacture of a medicament for selectively suppressing the IgE production, suppressing the immune reaction or treating and/or preventing allergic diseases.

The present invention provides a compound of the formula (I) as an example of the compounds which has the above effects:

$$R^{1}$$
 R^{2} R^{3} R^{6} R^{7} R^{10} R^{11} $X-Y$ (I)

wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, R¹¹, R¹² and R¹³ are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted

lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

X is ·O·, ·CH_{2··}··NR¹⁴· wherein R¹⁴ is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or ·S(O)p· wherein p is an integer of 0 to 2, Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkenyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is ·CH₂· and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is ·O· or ·NR¹⁴·, R¹ and R⁴, R¹ and R², R² and R³, R⁴ and R⁵, R⁶ and R⁷, R⁸ and R⁹, R¹⁰ and R¹¹, R¹² and R¹³, R¹¹ and ·X·Y, or R¹³ and ·X·Y taken together may form a 5- or 6-membered ring which may contain one or more of O, S or NR¹⁵ wherein R¹⁵ is hydrogen, optionally substituted lower alkenyl, optionally substituted arylsulfonyl and which may optionally be substituted,

excluding compounds wherein one or more of R^6 , R^7 , R^8 and R^9 are halogen and the others are hydrogen, all of R^6 , R^7 , R^8 and R^9 are halogen and all of R^2 - R^{13} are hydrogen, halogen or cyano,

provided that R^1 is not hydrogen, fluorine, optionally substituted lower alkyl or optionally substituted lower alkoxy, all of R^2 , R^3 , R^4 , R^5 and R^{12} are hydrogen, or R^{13} is not hydrogen or halogen when R^6 , R^7 , R^8 and R^9 are all simultaneously hydrogen, and further provided that R^1 is not methyl or acetyloxy, R^{13} is not hydrogen, optionally substituted lower alkoxycarbonyl or optionally substituted carbamoyl, or -X-Y is not methoxy when at least one of R^6 , R^7 , R^8 and R^9 is a substituent other than hydrogen,

and excluding a compound of the formula (I'):

wherein $R^{1'}$ is hydrogen or hydroxy and $R^{13'}$ is hydroxy or methoxy, pharmaceutically acceptable salt, hydrate or prodrug thereof.

The present invention provides a pharmaceutical composition, more specifically a selective suppressor of the IgE production, an immunosuppressor or an anti-allergic agent, comprising the compound (I), pharmaceutically acceptable salt, hydrate or prodrug thereof.

The present invention provides a selective suppressor of the IgE production, an immunosuppressor and/or an anti-allergic agent comprising a compound of the formula (I"):

$$R^{2}$$
 R^{3} R^{6} R^{7} R^{10} R^{11} $X-Y$ (I")

wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷,R⁸, R⁹, R¹⁰, R¹¹, R¹² and R¹³ are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkenyl, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

X is -O-, -CH₂-, -NR¹⁴- wherein R¹⁴ is hydrogen, optionally substituted lower alkyl,

optionally substituted lower alkenyl or acetyl, or -S(O)p- wherein p is an integer of 0 to 2, Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is -CH₂- and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or -NR¹⁴-, R¹ and R⁴, R¹ and R², R² and R³, R⁴ and R⁵, R⁶ and R⁷, R⁸ and R⁹, R¹⁰ and R¹¹, R¹² and R¹³, R¹¹ and -X-Y, or R¹³ and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O, S or NR¹⁵ wherein R¹⁵ is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or optionally substituted arylsulfonyl and which may optionally be substituted, excluding a compound of the formula (I'):

wherein $R^{1'}$ is hydrogen or hydroxy and $R^{13'}$ is hydroxy or methoxy, pharmaceutically acceptable salt, hydrate or prodrug thereof.

The present invention provides a method for selectively suppressing the IgE production, suppressing an immune reaction or treating or preventing allergic diseases comprising administering the compound (I) or (I"). In another embodiment, the present invention provides use of the compound (I) or (I") for manufacturing of a medicament for selectively suppressing the IgE production, suppressing the immune reaction or treating or preventing allergic diseases.

In one of the other embodiments, the present invention provides a process for producing a compound of the formula (I"'):

$$R^{1}$$
 R^{2} R^{3} R^{6} R^{7} R^{10} R^{11} $X-Y$ (I''') R^{4} R^{5} R^{8} R^{9} R^{12} R^{13}

the compound of the above formula (I) or (I'), pharmaceutically acceptable salt or hydrate thereof

wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, R¹¹, R¹² and R¹³ are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkenyl, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

X is -O-, -CH₂-, -NR¹⁴- wherein R¹⁴ is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or -S(o)p- wherein p is an integer of 0 to 2, Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is -CH₂- and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or -NR¹⁴-, R¹ and R⁴, R¹ and R², R² and R³, R⁴ and R⁵, R⁶ and R⁷, R⁸ and R⁹, R¹⁰ and R¹¹, R¹² and R¹³, R¹¹ and -X-Y, or R¹³ and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O, S or NR¹⁵ wherein R¹⁵ is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted

arylsulfonyl, and which may optionally be substituted,

excluding a compound wherein one or more of R^6 , R^7 , R^8 and R^9 are halogen and the others are hydrogen, all of R^6 , R^7 , R^8 and R^9 are halogen and all of R^2 - R^{13} are hydrogen, halogen or cyano,

provided that R¹ is not hydrogen, fluorine, optionally substituted lower alkyl or optionally substituted lower alkoxy, all of R², R³, R⁴, R⁵ and R¹² are hydrogen or R¹³ is not hydrogen or halogen when R⁶, R⁷, R⁸ and R⁹ are all simultaneously hydrogen, and further provided that R¹ is not methyl or acetyloxy, R¹³ is not hydrogen, optionally substituted lower alkoxycarbonyl or optionally substituted carbamoyl or -X-Y is not methoxy when at least one of R⁶, R⁷, R⁸ and R⁹ is a substituent other than hydrogen, pharmaceutically acceptable salt or hydrate thereof, which comprises reacting a compound of the formula (II):

$$Z \xrightarrow{R^{10}} R^{11}$$

$$Z \xrightarrow{R^{12}} X - Y \qquad (II)$$

with a compound of the formula (III):

$$R^{1} \xrightarrow{R^{2}} R^{3} R^{6} R^{7}$$

$$R^{1} \xrightarrow{R^{4}} R^{5} R^{8} R^{9}$$
(III)

wherein, in the formulas (II) and (III), R¹ - R¹³, X and Y are the same as defined in the above formula (I), either of A and Z is dihydroxyborane, di(lower)alkoxyborane, di(lower)alkylborane.

$$O$$
B-, O B-

and the other is halogen or $-OSO_2(C_qF_{2q+1})$ - wherein q is an integer of 0 to 4, or reacting a compound of the formula (II'):

$$R^{1}$$
 R^{4}
 R^{5}
 R^{5}
 R^{1}
 R^{2}
 R^{3}
 R^{1}
 R^{2}
 R^{3}
 R^{1}

with a compound of the formula (III'):

$$A = \begin{bmatrix} R^6 & R^7 & R^{10} & R^{11} \\ A & & & & \\ R^8 & R^9 & R^{12} & R^{13} \end{bmatrix} \times Y$$
 (III')

wherein, in the formulas (II') and (III'), R¹ - R¹³, X and Y are the same as defined in the above formula (I) and A and Z are the same as defined in the above formulas (II) and (III). As another process, the present invention provides a process for producing the compound of the above formula (I'''), (I) or (I'), pharmaceutically acceptable salt or hydrate thereof comprising the reaction of a compound of the formula (IV):

$$A^{1} \xrightarrow{R^{6} R^{7}} A^{2} \quad (IV)$$

with a compound of the formula (V):

wherein, in the formulas (IV) and (V), R^1 - R^9 are the same as defined in the above formula (I), Z^1 is the same as Z defined in the above formula (II), A^1 and A^2 are each independently the same as A defined in the above formula (III) and the reactivity of A^1 is higher than or equal to that of A^2 ,

followed by the reaction with a compound of the formula (VI):

$$Z^2 \xrightarrow{R^{10}} R^{11}$$
 $X-Y \quad (VI)$

wherein R^{10} . R^{13} , X and Y are the same as defined in the above formula (I) and Z^2 is the same as Z defined in the above formula (II) and a process for producing the compound of the above formula (I'''), (I) or (I'), pharmaceutically acceptable salt, hydrate thereof comprising the reaction of a compound of the formula (IV'):

$$A^{1} \xrightarrow{R^{8}} A^{2} \quad (IV')$$

wherein R^6 - R^9 is the same as defined in the above formula (I), A^1 and A^2 are each independently the same as A defined in the above formula (III) and the reactivity of A^2 is higher than or equal to that of A^1 ,

with a compound of the above formula (VI), followed by the reaction with a compound of the above formula (V).

Brief Description of the Drawings

Figure 1 shows an antibody production-suppressive effect on human peripheral lymphocytes of the compound (I-839) of the present invention. The ordinate represents a percentage of the amount of antibodies to that of antibodies which are produced in the absence of the compound. The abscissa represents a concentration of the compound.

Figure 2 shows an antibody production-suppressive effect on human peripheral lymphocytes of the compound No. 36. The ordinate represents a percentage of the amount of antibodies to that of antibodies which are produced in the absence of the compound. The abscissa represents a concentration of the compound.

Figure 3 shows an antibody production-suppressive effect on mouse spleen

lymphocytes of the compound (I-967) of the present invention. The ordinate represents a percentage of the amount of antibodies to that of antibodies which are produced in the absence of the compound. The abscissa represents a concentration of the compound.

Figure 4 shows a suppressive effect of the compound (I-963) of the present invention for an infiltration of inflammatory cells to irrigation water of pulmonary alveolus by an antigen stimulation on mice. The ordinate represents the number of inflammatory cells and the abscissa represents the number of total inflammatory cells, the number of macrophages, the number of eosinophils and the number of neutrophils. The white column represents a group inhaling saline instead of ovalbumin, the black column represents a group inhaling an antigen to cause inflammation and without administration of any compound of the present invention, and the gray column represents a group inhaling an antigen to cause inflammation with administration of the compound of the present invention.

Best Mode for Carrying Out the Invention

In the present specification, the term "halogen" includes fluorine, chlorine, bromine and iodine. Fluorine or chlorine is preferable. The halogen in the term "halogeno(lower)alkyl", "halogeno(lower)alkenyl" and "halogenoaryl" is the same as above.

The term "lower alkyl" represents straight or branched chain alkyl having 1 to 10 carbon atoms, preferably 1 to 8 carbon atoms, more preferably 1 to 6 carbon atoms and most preferably 1 to 4 carbon atoms. For example, included are methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, n-pentyl, isopentyl, neopentyl, hexyl, isohexyl, n-heptyl, isoheptyl, n-octyl, isooctyl, n-nonyl, n-decyl and the like.

As substituents of the "optionally substituted lower alkyl" in R¹ - R¹³, R¹⁴ and R¹⁵ exemplified are halogen; hydroxy; lower alkoxy optionally substituted with lower alkoxy;

carboxy; lower alkoxycarbonyl; acyloxy and the like and the lower alkyl may be substituted with one or more of these substituents at any possible positions.

As substituents for "optionally substituted lower alkyl" in Y exemplified are halogen; hydroxy; carboxy; lower alkoxycarbonyl; lower alkoxy optionally substituted with lower alkoxy; acyl; acyloxy; amino optionally substituted with hydroxy or lower alkyl; imino optionally substituted with hydroxy, lower alkoxy, carboxy(lower)alkoxy, aryl(lower)alkoxy or heterocyclyl; hydrazono optionally substituted with carbamoyl or lower alkoxycarbonyl; cycloalkyl optionally substituted with lower alkyl; cycloalkenyl optionally substituted with lower alkyl; cyano; carbamoyl optionally substituted with lower alkyl;

wherein ring A represents cycloalkyl or heterocyclyl;

aryl optionally substituted with lower alkyl, halogeno(lower)alkyl, carboxy(lower)alkyl, lower alkoxycarbonyl(lower)alkyl, halogen, hydroxy, lower alkoxy, carboxy, lower alkoxycarbonyl, lower alkenyloxycarbonyl, acyloxy, nitro, cyano, amino, lower alkoxycarbonylamino, acylamino, lower alkylsulfonylamino, lower alkylamino or guanidino; or

heterocyclyl optionally substituted with lower alkyl (optionally substituted with heterocyclyl), halogen, hydroxy, carboxy, lower alkoxycarbonyl, lower alkylsulfonyl, lower alkylarylsulfonyl, mercapto, lower alkylthio or heterocyclyl optionally substituted with aryl.

The alkyl part of "halogeno(lower)alkyl", "hydroxy(lower)alkyl",

"carboxy(lower)alkyl", "lower alkoxycarbonyl(lower)alkyl", "lower alkylthio", "lower
alkylamino", "lower alkylsulfonyl", "lower alkylsulfonyloxy", "lower alkylsulfonylamino",

"lower alkylsulfinyl", "lower alkylaryl", "lower alkylarylsulfonyl",

"di(lower)alkylcarbamoyl", "di(lower)alkylborane, "lower alkoxy", "carboxy(lower)alkoxy",

"aryl(lower)alkoxy", "lower alkoxy(lower)alkoxy", "lower alkoxyaryl" or

"di(lower)alkoxyborane" is the same as defined in the above "lower alkyl". As

substituents in the case of being "optionally substituted" exemplified are halogen;

hydroxy; lower alkoxy; carboxy; lower alkoxycarbonyl; acyloxy; cycloalkyl; aryl optionally

substituted with lower alkyl; heterocyclyl and the like. These substituents may

substitute at one or more of any possible positions.

The part of lower alkyl in "lower alkoxycarbonyl" is the same as the above defined "lower alkyl" and substituents for "optionally substituted lower alkoxycarbonyl" are the same as those for the above "optionally substituted lower alkoxy".

The part of "lower alkoxycarbonyl" in "lower alkoxycarbonyl(lower)alkyl", "lower alkoxycarbonyl(lower)alkenyl" or "lower alkoxycarbonylamino" is the same as the above defined "lower alkoxycarbonyl".

The term "lower alkenyl" represents straight or branched chain alkenyl having 2 to 10 carbon atoms, preferably 2 to 8 carbon atoms and more preferably 3 to 6 carbon atoms. For example, included are vinyl, propenyl, isopropenyl, butenyl, isobutenyl, butadienyl, pentenyl, isopentenyl, pentadienyl, hexenyl, isohexenyl, hexadienyl, heptenyl, octenyl, nonenyl, decenyl and the like and these have one or more double bonds at any possible positions. Substituents for "optionally substituted lower alkenyl" are the same as that for the above "optionally substituted lower alkoxy".

The part of lower alkenyl in "lower alkoxycarbonyl(lower)alkenyl",

"halogeno(lower)alkenyl", "lower alkenyloxy", "lower alkenyloxycarbonyl" or "lower
alkenylamino" is the same as the above defined "lower alkenyl".

Substituents for "optionally substituted lower alkenyloxy" are the same as those for the above "optionally substituted lower alkoxy".

The term "lower alkynyl" represents straight or branched chain alkynyl having 2 to 10 carbon atoms, preferably 2 to 8 carbon atoms and more preferably 3 to 8 carbon atoms.

Specifically, included are ethynyl, propynyl, butynyl, pentynyl, hexynyl, heptynyl, octynyl, nonyl, decynyl and the like. These have one or more triple bonds at any possible positions and may further have a double bond. Substituents for "optionally substituted lower alkynyl" are the same as those for the above "optionally substituted lower alkoxy".

The term "acyl" represents aliphatic acyl which includes chain acyl having 1 to 10 carbon atoms, preferably 1 to 8 carbon atoms, more preferably 1 to 6 carbon atoms, most preferably 1 to 4 carbon atoms and cyclic acyl having 3 to 8 carbon atoms, preferably 3 to 6 carbon atoms, and aroyl. Specifically, included are formyl, acetyl, propionyl, butyryl, isobutyryl, valeryl, pivaloyl, hexanoyl, acryloyl, propioloyl, methacryloyl, crotonoyl, cyclohexanecarbonyl, benzoyl and the like. Substituents for "optionally substituted acyl" are the same as those for "optionally substituted lower alkoxy" and aroyl may further be substituted with lower alkyl.

The part of acyl in "acyloxy" or "acylamino" is the same as the above identified "acyl" and substituents for "optionally substituted acyloxy" are the same as those for the above "optionally substituted acyl".

The term "cycloalkyl" represent cyclic hydrocarbon having 3 to 6 carbon atoms and includes, for example, cyclopropyl, cyclobutyl, cyclopentyl cyclohexyl and the like. As substituents for "optionally substituted cycloalkyl" exemplified are lower alkyl, halogen, hydroxy, carboxy, lower alkoxycarbonyl, lower alkoxy, aryl, heterocyclyl and the like and the cycloalkyl may be substituted at any possible positions.

The term "cycloalkenyl" represents the group having one or more double bonds at any possible positions in the above cycloalkyl and included are, for example, cyclopropenyl, cyclobutenyl, cyclopentenyl, cyclohexenyl, cyclohexadienyl and the like. Substituents for "optionally substituted cycloalkenyl" are the same as those for the above identified "cycloalkyl".

The term "optionally substituted amino" includes substituted amino and unsubstituted amino and substitutents exemplified are lower alkyl optionally substituted with lower alkylaryl etc.; lower alkenyl optionally substituted with halogen; lower alkylsulfonyl; lower alkylarylsulfonyl; lower alkoxycarbonyl; sulfamoyl; acyl optionally substituted with halogen; carbamoyl and the like.

The term "optionally substituted carbamoyl" includes substituted carbamoyl and unsubstituted carbamoyl and substituents exemplified are lower alkyl; lower alkylsulfonyl; sulfamoyl; acyl optionally substituted with halogen; amino and the like.

The term "optionally substituted sulfamoyl" includes substituted sulfamoyl and unsubstituted sulfamoyl and substituents exemplified are lower alkyl optionally substituted with aryl; lower alkenyl and the like.

The term "aryl" includes phenyl, naphthyl, anthryl, indenyl, phenanthryl and the like. Substituents for "optionally substituted aryl" exemplified are lower alkyl optionally substituted with halogen or carboxy; hydroxy; halogen; lower alkoxy; lower acyloxy; carboxy; lower alkoxycarbonyl; lower alkenyloxycarbonyl; amino optionally substituted with lower alkyl, lower alkylsulfonyl, lower alkoxycarbonyl or acyl; guanidino; nitro; aryl; heterocyclyl and the like and "optionally substituted aryl" may be substituted with one or more of these substituents at any possible positions.

The part of aryl in "lower alkylaryl", "halogenoaryl", "lower alkoxyaryl", "arylsulfonyl", "aryl(lower)alkoxy", "lower alkylarylsulfonyl", "heterocyclyl substituted with aryl", "aroyl" or "aroyloxy" is the same as the above "aryl" and the substituents for "optionally substituted" are also the same as those for in the above "optionally substituted aryl".

The term "heterocyclyl" represents a heterocyclic group which contains one or more of hetero atoms arbitrarily selected from a group of O, S and N and exemplified are 5- or 6- membered aromatic heterocyclyl such as pyrrolyl, imidazolyl, pyrazolyl, pyridyl,

pyridazinyl, pyrimidinyl, pyrazinyl, triazolyl, triazinyl, isoxazolyl, oxazolyl, oxadiazolyl, isothiazolyl, thiaziazolyl, furyl, thienyl etc., condensed aromatic heterocyclyl such as indolyl, carbazolyl, acridinyl, benzimidazolyl, indazolyl, indolizinyl, quinolyl, isoquinolyl, cinnolinyl, phthalazinyl, quinazolinyl, naphthyridinyl, quinoxalinyl, purinyl, pteridinyl, benzisoxazolyl, benzoxazolyl, benzoxadiazolyl, benzisothiazolyl, benzothiazolyl, benzothiazolyl, benzothiazolyl, benzothiazolyl, benzothiazolyl, benzothiazolyl, benzothiazolyl, benzothiazolyl, penzothiazolyl, benzothiazolyl, pyrazolinyl, thianyl, pyrrolidinyl, pyrrolinyl, imidazolidinyl, oxathioranyl, azetidinyl, thianyl, pyrrolidinyl, pyrrolinyl, imidazolidinyl, imidazolinyl, pyrazolidinyl, pyrazolinyl, piperidyl, piperazinyl, morpholinyl etc. As substituents for "optionally substituted heterocyclyl" exemplified are lower alkyl, lower alkenyl, hydroxy, halogen, carboxy, lower alkoxycarbonyl, lower alkoxy, mercapto, lower alkylthio, lower alkylsulfonyl, aryl, heterocyclyl and the like and the heterocyclyl may be substituted with one or more of these substituents at any possible positions. The part of heterocycle in "heterocyclyl substituted with aryl" is the same as the above "heterocyclyl".

N=CH-N=CH-, -CH=N-CH=N-, -N=CH-CH=N- (m is 1 or 2 and n is 2 or 3) or the like and further these and the two carbon atoms constituting phenyl taken together form a 5- or 6- membered ring. These rings may be substituted with one or more of hydroxy; halogen; lower alkyl optionally substituted with lower alkoxycarbonyl or heterocyclyl; lower alkenyl optionally substituted with halogen; lower alkyliden optionally substituted with halogen; or the like. The substituents of "5- or 6-membered ring which may contain one or more of O or NR ¹⁵ and may optionally be substituted", "5- or 6-membered ring which contains one or more of O and may optionally be substituted" and "5- or 6- membered ring which contains one or more of O and may optionally be substituted" are the same as the above unless otherwise defined.

The term "lower alkylidene" represents straight or branched alkylidene having 1 to 6 carbon atoms, preferably 1 to 4 carbon atoms, more preferably 1 to 3 carbon atoms and includes, for example, methylene, ethylidene, isopropylidene, vinylidene, methylidyne and the like.

The term "all of R^2 - R^{13} are hydrogen, halogen or cyano" represents, for example, the case that R^2 - R^{13} are the same or different and hydrogen, halogen or cyano. For example, included are the case that all of R^2 - R^{13} are hydrogen, the case that all of them are halogen, the case that some are halogen and the others are hydrogen, the case that some are cyano and the others are hydrogen, the case that some are cyano and the others are hydrogen and the like.

The term "compound (I)", "compound (I")" or "compound (I"")" also includes formable and pharmaceutically acceptable salts of each compounds. As "the pharmaceutically acceptable salt", exemplified are salts with mineral acid such as hydrochloric acid, sulfuric acid, nitric acid, phosphoric acid, hydrofluoric acid, hydrobromic acid and the like; salts with organic acids such as formic acid, acetic acid, tartaric acid, lactic acid, citric acid, fumaric acid, maleic acid, succinic acid and the like;

salts with organic bases such as ammonium, trimethylammonium, triethylammonium and the like; salts with alkaline metals such as sodium, potassium and the like and salts with alkaline earth metals such as calcium, magnesium and the like.

The compound of the present invention includes hydrates and all of stereoisomers, for example, atropisomers etc. thereof.

The compound of the present invention includes prodrugs thereof. The term "prodrug" means a group of compounds which are easily changeable to the compounds (I) or (I") which have activities in living bodies. The prodrug may be prepared by usual reactions. As usual methods for producing prodrugs exemplified is the substitution of hydroxy by acyloxy substituted with carboxy, sulfo, amino, lower alkylamino or the like, phosphonoxy or the like. The substitution of hydroxy attached to R¹ by - OCOCH₂CH₂COOH, -OCOCH=CHCOOH, -OCOCH₂SO₃H, -OPO₃H₂, -OCOCH₂NMe₂, -OCO-Pyr (Pyr is pyridine) or the like is preferable.

In the present specification, the term "compound (I)" represents a group comprising novel compounds excluding the compound (I'), the term "compound (I")" represents a group comprising the compound (I) and known compounds and the term "compound (I")" represents a group comprising the compound (I) and the compound (I').

All of the compounds (I) and (I") have a suppressive effect on the IgE production, an immunosuppressive effect and/or an anti-allergic effect and the following compounds are specifically preferable.

In the formulas (I) and (I"),

1) a compound wherein R¹, R², R³, R⁴, R⁵, R⁶, R⁷, R⁸, R⁹, R¹⁰, R¹¹, R¹² and R¹³ are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally

substituted lower alkylsulfonyloxy, formyl, optionally substituted amino, optionally substituted carbamoyl or optionally substituted sulfamoyl,

X is -O-, -CH₂-,-NR¹⁴- wherein R¹⁴ is hydrogen or optionally substituted lower alkyl, or -S(O)p- wherein p is an integer of 0 to 2,

Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl or optionally substituted cycloalkenyl, and

R¹ and R⁴, R¹ and R², R⁸ and R⁹, R¹¹ and -X-Y, or R¹³ and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O or NR¹⁵,

2) a compound wherein R¹ is hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkylsulfonyloxy, lower alkylsulfonyl, formyl, optionally substituted amino, lower alkylsulfinyl, acyloxy, nitro, cyano, optionally substituted sulfamoyl or heterocyclyl,

R² is hydrogen, hydroxy, halogen, optionally substituted lower alkyl or optionally substituted lower alkylsulfonyloxy,

R³ is hydrogen, hydroxy, halogen or optionally substituted lower alkoxy,

 \mathbb{R}^4 is hydrogen, optionally substituted lower alkyl, halogen, optionally substituted lower alkoxy, nitro or optionally substituted amino,

R⁵ is hydrogen, optionally substituted lower alkoxy, lower alkoxycarbonyl or carboxy, R⁶ is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lower alkoxycarbonyl, nitro, formyl, amino or lower alkylsulfonyloxy,

R⁷ and R⁸ are each independently hydrogen, halogen, optionally substituted lower alkyl, optionally substituted lower alkoxy, formyl or optionally substituted amino,

R⁹ is hydrogen, hydroxy, carboxy, optionally substituted lower alkyl, optionally

substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, optionally substituted carbamoyl or optionally substituted amino,

R¹⁰ is hydrogen or lower alkoxy,

 R^{11} is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, nitro or amino, R^{12} is hydrogen,

R13 is hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted acyloxy, optionally substituted lower alkylsulfonyloxy, formyl, nitro or optionally substituted amino, and further R13 may be hydrogen in the formula (I"), Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl or optionally substituted cycloalkenyl and Y may be optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or -NR14-, and

 R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

3) a compound wherein R¹ is hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, lower alkylsulfonyl, formyl, optionally substituted amino, lower alkylsulfinyl, acyloxy, nitro, cyano, optionally substituted sulfamoyl or heterocyclyl (hereinafter referred to as "R¹ is R1-1") or R¹ and R² or R⁴ taken together form a 5- or 6-membered ring which contains one or

more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted.

preferably R^1 is hydrogen, hydroxy, halogen, optionally substituted lower alkoxy, optionally substituted lower alkenyloxy, optionally substituted lower alkylsulfonyloxy, optionally substituted amino, optionally substituted sulfamoyl (hereinafter referred to as " R^1 is R^1 -2"), or R^1 and R^2 or R^4 taken together form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

more preferably, R^1 is hydrogen, hydroxy, halogen, lower alkoxy(lower)alkoxy, aryl(lower)alkoxy, lower alkenyloxy, lower alkylsulfonyloxy, amino, lower alkylamino or lower alkenylamino (hereinafter referred to as " R^1 is R^1 -3"), or R^1 and R^2 or R^4 taken together form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted, most preferably, R^1 is hydrogen, hydroxy, chlorine, fluorine, methoxymethyloxy, benzyloxy, 3-methyl-2-butenyloxy, methanesulfonyloxy, amino, dimethylamino or 3-methyl-2-butenylamino (hereinafter referred to as " R^1 is R^1 -4"), or R^1 and R^2 or R^4 taken together form -OCH₂O- or -CH=CH-NH-,

- 4) a compound wherein R^2 is hydrogen, hydroxy, halogen, lower alkyl or optionally substituted lower alkylsulfonyloxy (hereinafter referred to as " R^2 is R^2 -1") or R^1 and R^2 taken together form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted, preferably R^2 is hydrogen, halogen or alkyl having 1 to 3 carbon atoms (hereinafter referred to as " R^2 is R^2 -2"),
- 5) a compound wherein R^3 is hydrogen, hydroxy, halogen or optionally substituted lower alkoxy (hereinafter referred to as " R^3 is R3-1"), preferably R^3 is hydrogen or halogen (hereinafter referred to as " R^3 is R3-2"), more preferably R^3 is hydrogen or fluorine

(hereinafter referred to as "R3 is R3-3"),

6) a compound wherein R^4 is hydrogen, optionally substituted lower alkyl, halogen, optionally substituted lower alkoxy, nitro or optionally substituted amino (hereinafter referred to as " R^4 is R4-1") or R^4 and R^1 taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

preferably R^4 is hydrogen, lower alkyl, lower alkoxy or halogen (hereinafter referred to as " R^4 is R_4 -2"), or R^4 and R^1 taken together may form -OCH₂O-,

- 7) a compound wherein R^5 is hydrogen, optionally substituted lower alkoxy, lower alkoxycarbonyl or carboxy (hereinafter referred to as " R^5 is R5-1"), preferably R^5 is hydrogen, lower alkoxycarbonyl or carboxy (hereinafter referred to as " R^5 is R5-2"), more preferably R^5 is hydrogen (hereinafter referred to as " R^5 is R5-3"),
- 8) a compound wherein R^6 is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lower alkoxycarbonyl, nitro, formyl, amino or lower alkylsulfonyloxy (hereinafter referred to as " R^6 is R^6 -1"),

preferably R^6 is hydrogen or lower alkyl or halogen (hereinafter referred to as " R^6 is R^6 -2").

more preferably R^6 is hydrogen, alkyl having 1 to 3 carbon atoms or halogen (hereinafter referred to as " R^6 is R^6 -3"),

9) a compound wherein \mathbb{R}^7 is hydrogen, halogen, optionally substituted lower alkyl, optionally substituted lower alkoxy, formyl or optionally substituted amino (hereinafter referred to as " \mathbb{R}^7 is \mathbb{R}^7 -1"),

preferably R^7 is hydrogen, lower alkyl or lower alkoxy (hereinafter referred to as " R^7 is R^7 -2"),

10) a compound wherein R⁸ is hydrogen, halogen, optionally substituted lower alkyl, optionally substituted lower alkoxy, formyl or optionally substituted amino (hereinafter

referred to as " R^8 is R8-1") or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O and which may optionally be substituted, preferably R^8 is hydrogen, lower alkyl or lower alkoxy (hereinafter referred to as " R^8 is R8-2"),

11) a compound wherein R⁹ is hydrogen, hydroxy, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, optionally substituted carbamoyl or optionally substituted amino (hereinafter referred to as "R⁹ is R9-1") or R⁹ and R⁸ taken together may form a 5- or 6-membered ring which contains one or more of O and which may optionally be substituted,

preferably R⁹ is hydrogen, hydroxy, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, optionally substituted carbamoyl or optionally substituted amino (hereinafter referred to as "R⁹ is R9-2");

more preferably R^9 is hydrogen, hydroxy, lower alkyl, hydroxy(lower)alkyl, lower alkoxycarbonyl(lower)alkenyl, lower alkoxy(lower)alkoxy, lower alkylsulfonyloxy, di(lower)alkylcarbamoyl, carboxy, lower alkoxycarbonyl or amino (hereinafter referred to as " R^9 is R9-3"),

most preferably R^9 is hydrogen, hydroxy, methyl, hydroxymethyl, ethoxycarbonylvinyl, methoxymethyloxy, methanesulfonyl, dimethylcarbamoyl, carboxy, methoxycarbonyl or amino (hereinafter referred to as " R^9 is R9-4"),

12) a compound wherein R^{10} is hydrogen or lower alkoxy (hereinafter referred to as " R^{10} is R10-1"), preferably R^{10} is hydrogen (hereinafter referred to as " R^{10} is R10-2"),

13) a compound wherein R¹¹ is hydrogen, halogen, optionally substituted lower alkyl,

carboxy, lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, nitro or amino (hereinafter referred to as " R^{11} is R^{11-1} ") or R^{11} and -X-Y taken together form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted with lower alkenyl, halogeno(lower)alkenyl or the like,

preferably R^{11} is hydrogen or halogen (hereinafter referred to as " R^{11} is R^{11-2} "), 14) a compound wherein R^{12} is hydrogen,

15) a compound wherein R¹³ is hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkylsulfonyloxy, optionally substituted acyloxy, optionally substituted lower alkylsulfonyloxy, formyl, nitro or optionally substituted amino (hereinafter referred to as "R¹³ is R¹³-1") or R¹³ and -X-Y taken together form a 5- or 6-membered ring which contains one or more of O or NR¹⁵ wherein R¹⁵ is the same as defined above and which may optionally be substituted with lower alkenyl, halogeno(lower)alkenyl or the like,

preferably R^{13} is hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted acyloxy, optionally substituted lower alkylsulfonyloxy, formyl or optionally substituted amino (hereinafter referred to as " R^{13} is R^{13-2} "),

more preferably R¹³ is hydroxy; halogen; lower alkyl optionally substituted with hydroxy or halogen; lower alkoxy optionally substituted with lower alkoxycarbonyl or lower alkoxy; lower alkenyloxy optionally substituted with halogen; aroyloxyl; lower alkylsulfonyloxy; formyl or amino (hereinafter referred to as "R¹³ is R13-3"), most preferably R¹³ is hydroxy, fluorine, methyl, hydroxymethyl, iodomethyl, methoxy, ethoxy, isopropyloxy, ethoxycarbonylmethyloxy, methoxymethyloxy, chlorobutenyloxy, bromopropenyloxy, chloropropenyloxy, bromobutenyloxy, dichloropropenyloxy, ethoxycarbonyl, benzoyloxy, methanesulfonyloxy, formyl or amino (hereinafter referred

to as "R¹³ is R13-4"),

16) a compound wherein X is -O-, -NR¹⁴- or -S(O)p- wherein p is an integer of 0 to 2 (hereinafter referred to as "X is X1"), or X, R¹³ and Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR¹⁵ wherein R¹⁵ is the same as defined above and may optionally be substituted,

preferably X is -O-, -NH-, -NMe- or -SO₂- (hereinafter referred to as "X is X2"), more preferably X is -O-, -NH- or -NMe- (hereinafter referred to as "X is X3"), most preferably X is -O-,

17) a compound wherein Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted cycloalkenyl, lower alkylsulfonyl, optionally substituted arylsulfonyl, lower alkoxycarbonyl or optionally substituted acyl (hereinafter referred to as "Y is Y1"), or Y, \mathbb{R}^{13} and X taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R¹⁵ is the same as defined above and which may optionally be substituted, preferably Y is lower alkyl optionally substituted with halogen; hydroxy; amino optionally substituted with lower alkyl; lower alkoxy; carboxy; lower alkoxycarbonyl; acyl; cycloalkyl; cycloalkenyl; cyano; imino optionally substituted with hydroxy, lower alkoxy, carboxy(lower)alkoxy, aryl(lower)alkoxy or heterocyclyl; hydrazono optionally substituted with carbamoyl or lower alkoxycarbonyl; carbamoyl optionally substituted with lower alkyl or amino; thiocarbamoyl optionally substituted with lower alkyl; aryl optionally substituted with amino (optionally substituted with lower alkyl, acyl, lower alkoxycarbonyl or lower alkylsulfonyl), nitro, acyloxy, lower alkyl (optionally substituted with halogen or carboxy), halogen, lower alkoxy, carboxy, lower alkoxycarbonyl, lower alkenyloxycarbonyl or guanidino; or heterocyclyl optionally substituted with halogen or lower alkyl;

lower alkenyl optionally substituted with halogen, hydroxy, cycloalkyl, lower

alkoxycarbonyl or aryl-substituted heterocyclyl; lower alkynyl optionally substituted with halogen; or cycloalkenyl (hereinafter referred to as "Y is Y2"), more preferably Y is lower alkyl optionally substituted with lower alkoxycarbonyl, aryl, lower alkylaryl, halogenoaryl, lower alkoxyaryl, heterocyclyl or acyl; or lower alkenyl optionally substituted with hydroxy, halogen or aryl (hereinafter referred to as "Y is Y3"),

most preferably Y is isopropyl, ethoxycarbonylmethyl, benzyl, methylphenylmethyl, fluorophenylmethyl, dichlorophenylmethyl, methoxyphenylmethyl, pyridylmethyl, benzoylmethyl, propenyl, methylpropenyl, methylbutenyl, hydroxymethylbutenyl, pentenyl, methylpentenyl, dimethyloctadienyl, chloropropenyl, dichloropropenyl, bromopropenyl, dibromopropenyl, fluoropropenyl, difluoropropenyl, butenyl, bromobutenyl, chlorobutenyl or phenylpropenyl (hereinafter referred to as "Y is Y4"), 18) a compound wherein R¹ is R¹-2, R² is R²-1, R³ is R³-1, R⁴ is R⁴-1, R⁵ is R⁵-1, R⁶ is R6-1, R³ is R³-1, R³ is R³-1, R³ is R³-1, R¹ is R¹¹-1, R¹² is hydrogen, R¹³ is R¹³-1, X is X¹ and Y is Y¹, and R¹ and R², R¹ and R⁴, R³ and R³, or R¹³ and -X-Y taken together may form a ⁵- or 6-membered ring which contains one or more of O or NR¹⁵ wherein R¹⁵ is the same as defined above and which may optionally be substituted,

19) a compound wherein R^1 is R1-2, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-1, R^7 is R7-1, R^8 is R8-1, R^9 is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y1, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , or R^{13} and X^9 . Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

20) a compound wherein R^1 is R1-2, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen,

R¹³ is R₁₃₋₁, X is X₁ and Y is Y₂, and R¹ and R², R¹ and R⁴, R⁸ and R⁹, or R¹³ and X₂ taken together may form a 5- or 6-membered ring which contains one or more of O or NR¹⁵ wherein R¹⁵ is the same as defined above and which may optionally be substituted,

21) a compound wherein R^1 is R1-1, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-1, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y1, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , or R^{13} and X^4 . Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

22) a compound wherein R^1 is R1-1, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-1, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-1, X is X1 and Y is Y2, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , or R^{13} and -X-Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

23) a compound wherein R^1 is R1-1, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-1, R^8 is R8-2, R^9 is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y2, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 or R^{13} and X^8 -Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

24) a compound wherein R^1 is R1-2, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-1, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y1, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , or R^{13} and X^9 . Y taken together may form a 5- or 6-membered ring which contains one or more of O or

 NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,

- 25) a compound wherein R^1 is R1-2, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-1, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-1, X is X1 and Y is Y2, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , or R^{13} and X^2 . Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,
- 26) a compound wherein R^1 is R1-2, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-1, R^8 is R8-2, R^9 is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y2, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , or R^{13} and X^2 . Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,
- 27) a compound wherein R^1 is R1-1, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R7-1, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y2, and R^1 and R^2 , R^1 and R^4 , R^8 and R^9 , or R^{13} and R^8 and R^9 , or R^{13} and R^9 is taken together may form a 5- or 6-membered ring which contains one or more of O or R^{15} wherein R^{15} is the same as defined above and which may optionally be substituted,
- 28) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 29) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, and R^1 and R^4 , or

- R⁸ and R⁹ taken together may form a 5- or 6-membered ring which contains one or more of O,
- 30) a compound wherein R^1 is R1-4, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form -OCH₂O-,
- 31) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 32) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-4, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 33) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 34) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-4, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 35) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

- 36) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 37) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 38) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 39) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 40) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-3, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 41) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y3, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,
- 42) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen,

 R^{13} is R_{13-3} , X is X2 and Y is Y2, and R^1 and R^4 , or R^8 and R^9 taken together may form -OCH $_2$ O-,

- 43) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, and R^1 and R^4 , or R^8 and R^9 taken together may form -OCH₂O-,
- 44) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y3, and R^1 and R^4 , or R^8 and R^9 taken together may form -OCH₂O-,
- 45) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-3, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y3, and R^1 and R^4 , or R^8 and R^9 taken together may form a 5- or 6-membered ring which contain one or more of O,
- 46) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-3, R^6 is R6-3, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X3 and Y is Y4, and R^1 and R^4 , or R^8 and R^9 taken together may form -OCH₂O-,
- 47) a compound wherein R^1 is R1-4, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-3, R^6 is R6-3, R^7 is R7-2, R^8 is R8-2, R^9 is R9-4, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-4, X is X3 and Y is Y4, R^1 and R^4 taken together may form -OCH₂O- and R^8 and R^9 taken together may form -OCH₂CH₂O-,
- 48) a compound wherein the benzene ring which is substituted with R^{1} R^{5} is

49) a compound wherein the benzene ring which is substituted with R⁶-R⁹ is

50) a compound wherein the benzene ring which is substituted with $R^{10}\text{-}R^{13}$ is

51) a compound wherein Y is -CH₂CH=CMe₂, -(CH₂)₂CH=CMe₂, -CH₂CH=CCl₂, -CH₂CH=CBr₂, -CH₂CH=CF₂, -CH₂CH=CHMe, -CH₂CH=C(Me)CH₂OH, -CH₂C≡CMe, -CH₂CGH₄-4-Me, -CH₂CGH₅, -CH₂CH₂CHMe₂ or -Me,

52) a compound wherein -X-Y is -OCH₂CH=CMe₂, -O(CH₂)₂CH=CMe₂, -OCH₂CH=CCl₂, -OCH₂CH=CBr₂, -OCH₂CH=CF₂, -OCH₂C=CMe, -OCH₂C₆H₄-4-Me, -OCH₂C₆H₅, -NHCH₂CH=CMe₂, -N(Me)CH₂CH=CMe₂, -NHCH₂CH₂CHMe₂, -NHCH₂C=CH, or -NMe₂, or

53) a compound wherein at least seven of the substituents of R^1 - R^{13} are hydrogen, preferably at least eight are hydrogen, more preferably at least nine are hydrogen, and their pharmaceutically acceptable salts, their hydrates and their prodrugs.

A process for producing the compound (I''') is as follows.

Process for producing the compound (I''') [Process a]

The compound (I''') can be produced by the reaction of a borane compound of the formula (II) and (II') coupled with a biphenyl derivative of the formula (III) and (III') respectively, as shown below.

wherein R^1 - R^{13} , X and Y are the same as defined in the above formula (I'''), and A and Z are the same as defined in the above formulas (II) and (III), or

wherein R^1 - R^{13} , X and Y are the same as defined in the above formula (I'''), and A and Z are the same as defined in the above formulas (II) and (III).

The compounds (II) and (II') are reacted with the compounds (III) and (III') respectively in a mixture system of an appropriate solvent such as benzene, toluene, dimethylformamide, dimethoxyethane, tetrahydrofuran, dioxane, ethanol, methanol or the like and water or in an anhydrous system in the presence of a palladium catalyst such as Pd(PPh₃)₄, PdCl₂(PPh₃)₂, PdCl₂(OAc)₂, PdCl₂(CH₃CN)₂ or the like, preferably Pd(PPh₃)₄, under a basic condition (for example, by K₃PO₄, NaHCO₃, NaOEt, Na₂CO₃, Et₄NCl, Ba(OH)₂, Cs₂CO₃, CsF, NaOH, Ag₂CO₃ or the like) at room temperature or with heating for several tens minutes to several tens hours to obtain the compound (I''').

One of substituents A and Z of the compounds to be reacted may be any of the borane groups which are applicable in the Suzuki Reaction (Chemical Communication 1979, 866, Journal of Synthetic Organic Chemistry, Japan, 1993, Vol.51, No.11, 91-100) and dihydroxyborane is preferable. The other may be any of the leaving groups which are applicable in the Suzuki Reaction, for example, halogen, $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0 to 4, or the like. Specifically, halogen, trifluoromethanesulfonyloxy (hereinafter referred to as OTf) or the like is preferable and bromine, iodine or OTf is more preferable.

The substituents R^1 - R^{13} and -X-Y of the compounds (II), (III), (II') and (III') may be any of the groups which do not affect the Suzuki Reaction, for example, any groups other than halogen and -OSO₂(C_qF_{2q+1}) wherein q is an integer of 0 to 4.

For example, Y may be optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, Y may be optionally substituted lower alkoxy when X is -CH₂- and Y may be optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or -NR¹⁴-. Even if R¹ - R¹³ or Y is halogen, these reactions can be carried out without difficulty when the reactivity of the substituent A with the substituent Z is higher than that of halogen with either of substituents A and Z.

Even if one of R^1 - R^{13} and -X-Y is hydroxy, the above reactions can be carried out preferably after the protection of hydroxy group with a usual hydroxy-protecting group (for example, metoxymethyl, benzyl, tert-butyldimethylsilyl, methansulfonyl, p-toluenesulfonyl or the like), followed by the removal of them by usual methods.

As processes for producing the compound (I"'), the above mentioned Suzuki

Reaction is most preferable in view of the efficiency and easiness but silicon, zinc, tin or
the like can be used in place of the borane group in the above scheme.

For example, in the case that one of A and Z is $-\mathrm{SiR}^{17}_{3\text{-r}}(\mathrm{Hal})_r$ wherein R^{17} is independently lower alkyl, Hal is halogen and r is an integer of 1 to 3 and the other is halogen or $-\mathrm{OSO}_2(\mathrm{C}_q\mathrm{F}_{2q+1})$ wherein q is an integer of 0 to 4, the coupling reaction may be carried out using a usual palladium catalyst (Synlett (1991) 845-853, J. Org. Chem. 1996, 61, 7232-7233). Examples of preferable palladium catalysts are (i-Pr₃P)₂PdCl₂, [(dcpe)PdCl₂] (dcpe=Cy₂PCH₂CH₂PCy₂), (η^3 -C₃H₅PdCl)₂ and the like.

Even in the case that one of A and Z is $-\mathrm{SnR}^{18}_3$ wherein R^{18} is each independently lower alkyl and the other is halogen, acetyloxy or $-\mathrm{OSO}_2(\mathrm{C}_q\mathrm{F}_{2q+1})$ wherein q is an integer of 0 to 4, an objective compound can be obtained using a usual palladium catalyst (preferably $\mathrm{Pd}(\mathrm{PPh}_3)_4$ or the like) (Angew. Chem. Int. Ed. Engl. 25 (1986) 508-524).

In the case that one of A and Z is -Zn(Hal) wherein Hal is halogen and the other is halogen, an objective compound can be obtained (Acc. Chem. Res. 1982, 15, 340-348).

Any usual palladium catalyst is applicable and Pd(PPh₃)₄, PdCl₂(dppf), PdCl₂(PPh₃)₂, PdCl₂(P(o-Tolyl)₃)₂, Pd(OAc)₂ and the like are exemplified as preferable examples.

All of these reactions may be carried out in a suitable solvent (for example, dimethylformamide, tetrahydrofuran or the like) at room temperature or with heating for several tens minutes to several tens hours.

Process for producing the compound (I''') [Process b]

As another easier processes for producing the compound (I"), the following process wherein the compound of the formulas (IV), (V) and (VI) are coupled is also applicable.

wherein R^1 - R^{13} , X and Y are the same as defined in the above formulas (I), (II) and (III) and A^1 , A^2 , Z^1 and Z^2 are the same as defined in the above A and Z, respectively. The reactivity of A^1 is higher than or equal to that of A^2 in the compound (IV) and the reactivity of A^2 is higher than or equal to that of A^1 in the compound (IV).

For production of the compound (I"') by the above process the compound (IV) may

be reacted with the compound (V), followed by the reaction with the compound (VI) without an isolation. The objective compound can be obtained also by a process wherein the compound (IV) is reacted with the compound (VI), followed by a reaction with the compound (V).

Because the reactions of the substituents A^1 and Z^1 and the substituents A^2 and Z^2 are necessary to obtain the objective compound, the reactivity of the substituent A^1 and that of A^2 should be different. A preferable example is the combination that A^1 is iodine and A^2 is bromine or -OTf in the compound (IV). Conversely in the compound (IV') iodine for A^2 and bromine or -OTf for A^1 are preferable. In the case that the compound (IV) or (IV') is a symmetry compound, the objective compound is obtained even if A^1 and A^2 are the same group.

The substituents Z^1 and Z^2 may be the same or different group.

Various other conditions in this process are the same as those in the "Process a".

In the above compounds, the substituents R^1 - R^{13} may be any of the groups which do not affect the reaction (for example, a group other than halogen and $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0 to 4) or any of the groups which do not affect the reaction and are changeable to R^1 - R^{13} by a usual reaction. In the latter case the substituents may be changed to R^1 - R^{13} in suitable steps according to the reaction of each compound.

For example, in the case that a substituent is formyl and an objective substituent is hydroxy, after the substituent is changed to formyloxy by the Baeyer-Villiger reaction etc., a usual hydrolysis reaction may be carried out under an acidic or alkaline condition. Specifically, a compound which has formyl is reacted with a peroxy acid such as peracetic acid, perbenzoic acid, m-chloroperbenzoic acid, trifluoroperacetic acid, hydrogen peroxide or the like in a suitable solvent such as 1,2-dichloroethane, chloroform, dichloromethane, carbon tetrachloride, benzene or the like at - 20 °C or with heating for several minutes to several tens hours, followed by the hydrolysis of the obtained compound which has

formyloxy under an acidic condition (for example, with heating with hydrochloric acid) or under a basic condition (for example, with heating with sodium hydroxide).

In the case that a substituent is formyl and an objective substituent is hydroxymethyl, the compound which has formyl may be reacted with a reductant such as sodium borohydride, lithium borohydride, zinc borohydride, triethyllithium borohydride, alminium hydride, diisobutylalminium hydride or the like in a solvent (for example, methanol, ethanol, isopropanol, dimethylsulfoxide, diethylene glycol dimethoxyethane, tetrahydrofuran, benzene, toluene, cyclohexane or the like) which is suitable for the reductant at -20 °C to 80 °C, preferably under ice-cooling or at room temperature, for several tens minutes to several hours.

In the case that a substituent is formyl and an objective substituent is alkenyl having additional carbon atoms, an objective compound can be obtained by the Wittig Reaction (Organic Reaction, 1965, vol.14, p. 270).

In the case that a substituent is formyl and an objective substituent is carboxy, the compound which has formyl may be reacted with an oxidizing agent such as sodium chlorite, the Jones Reagent, chromic anhydride or the like in a solvent such as tertbutanol, acetone or the like which is suitable for the oxidizing agent at 0 °C or with heating for several hours. The reaction is preferably carried out by addition of 2-methyl-2-buten, sodium dihydrogenphosphate or the like if needed.

In the case that a substituent is hydroxy and an objective substituent is substituted lower alkoxy, the compound which has hydroxy may be reacted with a proper alkylating agent in the presence of a base such as sodium carbonate, sodium bicarbonate, potassium carbonate, calcium hydroxide, barium hydroxide, calcium carbonate or the like in a suitable solvent such as tetrahydrofuran, acetone, dimethylformamide, acetonitrile or the like. Specifically, the reaction of a compound which has hydroxy with a proper halogenated compound such as methyl iodoacetate, ethyl chloroacetate, propyl

chloroacetate or the like can give a compound of which substituent is alkoxycarbonyl(lower)alkoxy.

In the case that a substituent is carboxy and an objective substituent is carbamoyl, the compound which has carboxy may be carbamoylated with an amine such as ammonia, dimethylamine or the like at 0 °C or with heating for several minutes to several hours in a suitable solvent such as tetrahydrofuran, dimethylformamide, diethyl ether, dichloromethane or the like, if necessary after activation by an activating agent such as thionyl chloride, an acid halide, an acid anhydride, an activated ester or the like.

In the case that a substituent is hydrogen and an objective substituent is halogen, the compound which has hydrogen may be halogenated by a halogenating agent which is generally used (for example, bromine, chlorine, iodine, sulfuryl chloride, N-bromosuccinimide, N-iodosuccinimide or the like) in a suitable solvent such as chloroform, dichloromethane, carbon tetrachloride, acetonitrile, nitromethane, acetic acid, acetic anhydride or the like, if necessary in the presence of a catalyst such as the Lewis acid, hydrochloric acid, phosphoric acid or the like at -20 °C or with heating for several minutes to several tens hours.

The compound (I) can be obtained by a reaction of the compound (II) which has a substituent -X-Y with the compound (III) or a reaction of the compound (III') which has a substituent -X-Y with the compound (II'). Further, the compound (I) can also be obtained by a reaction of the compound (II) or (III') which has a substituent -W which is convertible into a substituent -X-Y with the compound (III) or (II'), followed by a conversion of a substituent -W into a substituent -X-Y.

For example, in the case of a compound wherein -W is hydroxy or protected hydroxy, an objective substituent such as lower alkyl, lower alkenyl, lower alkynyl, acyl, cycloalkyl, cycloalkenyl, aryl, heterocyclyl, lower alkoxy or the like may be introduced by a usual reaction.

Concretely, to obtain a compound wherein X is -O-, a compound wherein -W is hydroxy is synthesized and dissolved in a suitable solvent (for example, dimethylformamide, tetrahydrofuran, acetone, benzene, dioxane, acetonitrile or the like), followed by addition of a base such as hydroxides or carbonates of alkaline metals or alkaline-earth metals (for example, sodium carbonate, sodium bicarbonate, potassium carbonate, calcium hydroxide, barium hydroxide, calcium carbonate and the like) or tertiary amines such as triethylamine and the like. To the reactant is added a compound Y-V wherein V is halogen or -OSO₂(C_qF_{2q+1}) wherein q is an integer of 0-4 (for example, prenyl bromide, cyclohexenyl bromide, cinnamyl bromide, 1-bromo-2-penten, geranyl bromide, 5-bromo-2-methyl-2-penten, 1,3-dichloro-2-buten, 3-chloropropyne, prenyl triffate, cyclohexenyl triffate, 1,3-trichloropropene or the like) at -20 °C or with heating for several minutes to several tens hours to obtain an objective compound wherein -W has been converted into -O-Y.

To obtain a compound wherein X is -CH₂-, -N R¹⁴- or -S-, a compound wherein -W is hydroxy is reacted with trifluoromethanesulfonic anhydride etc. in a solvent such as anhydrous dichloromethane, chloroform, carbon tetrachloride or the like in the presence of a base such as pyridine, triethylamine or the like to obtain a triflate. Then, the obtained compound is reacted with Y-V' wherein V' is -CH₂ZnI, -SH, -NHR¹⁴ in the presence of a catalyst such as palladium, nickel or the like in a suitable solvent such as tetrahydrofuran, dimethylformamide, diethyl ether, dimethoxyethane or the like to give an objective compound.

In the case that X is NR^{14} , a compound wherein W is NH_2 may be reacted with a ketone or an aldehyde in a suitable solvent such as tetrahydrofuran, methanol or the like, followed by reduction with a suitable reductant such as sodium borohydride, sodium cyanoborohydride, zinc hydrochloride or the like or by catalytic reduction to obtain an objective compound.

A usual reaction of a compound wherein W is NH_2 with Y-V" wherein Y is acyl, lower alkylsulfonyl optionally substituted or arylsulfonyl optionally substituted and V" is a leaving group such as halogen gives a compound wherein -X-Y is -NH-Y.

To obtain a compound wherein X is -SO- or -SO₂-, a compound wherein X is -S-which is synthesized by the above mentioned process may be oxidized with a usual oxidizing agent such as m-chloroperbenzoic acid.

A compound of the present invention wherein -X-Y is lower alkenyloxy is dissolved in a solvent such as ethanol, ethyl acetate or the like and hydrogenated with a catalyst such as Pd-carbon powder, platinum, rhodium, ruthenium, nickel or the like to give a compound wherein -X-Y is lower alkoxy.

A reaction of a compound wherein -X-Y is lower alkenyloxy with m-chloroperbenzoic acid or the like in a solvent such as dichloromethane, chloroform, benzene, hexane, tert-butanol or the like gives a compound wherein -X-Y is epoxidated lower alkoxy.

In the case that a compound has a substituent interfering of a reaction, the substituent may be protected with a suitable protecting group in advance and the protecting group may be left in a suitable step by a usual method. For example, if hydroxy interferes the reaction, hydroxy may be protected with methoxymethyl, methanesulfonyl, benzyl, trifluoromethanesulfonyl, tert-butyldimethylsilyl or the like, followed by deprotection in a suitable step.

For example, for a protection of hydroxy with methanesulfonyl, a compound which has hydroxy may be reacted with methanesulfonyl chloride in a solvent such as dichloromethane, chloroform, carbon tetrachloride or the like in the presence of a base such as triethylamine, pyridine or the like under ice-cooling or at room temperature for several hours. The protected compound may be deprotected with 1-4 N sodium hydroxide, potassium hydroxide, aqueous solution thereof, sodium methoxide, ethyl

magnesium bromide or the like in a solvent such as dimethylsulfoxide, dimethylformamide, tetrahydrofuran, dioxane, dimethoxyethane or the like at room temperature or with heating for several tens minutes to several hours.

When methoxymethyl is used as a protecting group of hydroxy, a compound which has hydroxy may be reacted with chloromethylmethylether in a solvent such as tetrahydrofuran, dioxane, dimethoxyethane or the like in the presence of sodium hydride, diisopropylethylamine or the like to obtain a compound which has a protected hydroxy group. The compound may be subjected to a usual deprotection reaction with hydrochloric acid, sulfuric acid or the like in a solvent such as methanol, tetrahydrofuran, acetic acid or the like for a deprotection.

When tert-butyldimethylsilyl is used as a protective group, a compound which has hydroxy may be reacted with tert-butyldimethylsilyl chloride, tert-butyldimethylsilyl triflate or the like in a solvent such as dimethylformamide, acetonitrile, tetrahydrofuran, dimethylformamide, dichloromethane or the like in the presence of imidazole, triethylamine, 2, 6-lutidine or the like. For a deprotection reaction the protected compound may be reacted with tetrabutylammonium fluoride or the like in a solvent such as tetrahydrofuran or the like.

Both of known compounds and the compounds which are produced by the following process may be used as the compounds (III) and (III') in the above scheme.

or

Known compounds (VIII) and (IX), or (VIII') and (IX') wherein A and Z are groups which can be subjected to a coupling reaction by the Suzuki Reaction with each other; for example, one is borane such as dihydroxyborane, di(lower)alkoxyborane or the like and the other is halogen or $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0-4; D is a group other than halogen and $-OSO_2(C_qF_{2q+1})$ wherein q is the same as defined above are reacted by the same method as above to obtain a compound (VII) or (VII').

As described above, instead of a compound which has borane, a compound which has $-\operatorname{SiR}^{17}_{3\text{-r}}(\operatorname{Hal})_r$ wherein R^{17} is each independently lower alkyl, Hal is halogen and r. is an integer of 1-3, $-\operatorname{SnR}^{18}_3$ wherein R^{18} is each independently lower alkyl or $-\operatorname{Zn}(\operatorname{Hal})$ wherein Hal is halogen may be used for a reaction to obtain an objective compound.

Then, a substituent D is converted into a substituent A which is applicable to the Suzuki Reaction.

For example, a compound wherein D is hydrogen may be reacted with a halogenating agent such as bromine, chlorine, iodine, sulfuryl chloride, N-bromosuccinimide or the like in a suitable solvent such as acetic acid, chloroform, dichloromethane, carbon tetrachloride, water, acetic acid-sodium acetate or the like at 20 °C or with heating for several minutes to several tens hours to give an objective compound wherein A is halogen.

A compound wherein D is protected hydroxy may be reacted with a trifluoromethanesulfonating agent such as trifluoromethanesulfonic anhydride, trifluoromethansulfonyl chloride or the like in a suitable solvent such as dichloromethane, chloroform, tetrahydrofuran or benzene in the presence of a base such as pyridine or triethylamine at -20 °C or with heating for several minutes to several tens hours to give an objective compound wherein A is OTf.

A compound of the present invention thus obtained can be converted into prodrug thereof. Any usual methods for conversion into a prodrug may be used. For example, hydroxy or amino which is attached a compound of the present invention at any position may be substituted with a usual group for a prodrug. An example of conversion into a prodrug is a substitution of hydroxy with acyloxy substituted with carboxy, sulfo, amino, lower alkylamino or the like, phosphonoxy etc. A substitution of hydroxy for R¹ with - OCOCH₂CH₂COOH, -OCOCH=CHCOOH, -OCOCH₂SO₃H, -OPO₃H₂, -OCOCH₂NMe₂, -OCO-Pyr wherein Pyr is pyridine or the like is preferable.

A selective suppressor of the IgE production of the present invention comprises a compound which suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody and which does not suppress or weakly suppresses the production of the immunoglobulins IgG, IgM and/or IgA which are produced at the same time.

The term "suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody" means to suppress the IgE production by inhibiting one of the following processes.

- 1) A process wherein mature B cells are activated by various factors such as cytokines, i.e., IL-4, IL-5, etc., anti-CD40 antibody or the like,
- 2) A process wherein the activated B cells differentiate into antibody-producing cells such as plasma cells etc. (concretely, a process of switching of the activated B cells to IgE

class antibody-producing cells) and/or

3) A process wherein the antibody-producing cells produce immunoglobulins (specifically, a process of the IgE production)

An inhibition of "a process wherein a mature B cell is activated by various factors" in the process 1) does not include an inhibition of a process wherein the factors are produced from other cells and the like.

The term "suppresses the IgE production and does not suppress or weakly suppresses the production of the immunoglobulins IgG, IgM and/or IgA which are produced at the same time" means that the IgE production is suppressed enough to suppress allergy reactions and that the IgG, IgM and/or IgA production is not suppressed so potent as to badly affect an immune system concerning a living body protection under the condition that IgE and one or more of IgG, IgM and IgA can be produced at the same time. In other words,

- ① The suppression of the IgE production is 5,000 times, preferably 10,000 times, more preferably 15,000 times, most preferably 20,000 times or more as potent as those of the IgG, IgM and/or IgA production and/or
- ② The IgG, IgM and/or IgA production is not suppressed to less than 50 % even at 5,000 times, preferably 10,000 times, more preferably 15,000 times, most preferably 20,000 times the concentration at which 50 % of the IgE production is suppressed as compared with that in the absence of the suppressor.

The term "the concentration at which 50 % of the IgE production is suppressed as compared with that in the absence of the suppressor" means a concentration at which the IgE production is limited to 50 % of the production in the absence or without administration of the selective suppressor of the IgE production of the present invention under the condition that the IgE can be produced. The suppressor is useful as a medicament when it has a selectivity for the IgE as compared with at least one of IgG,

IgM or IgA, preferably with all of them.

The selective suppressor of the IgE production of the present invention suppresses 90 % or more of the IgE production as compared with that without administration of the suppressor at a dosage that the suppressor does not suppress or weakly suppresses the IgM, IgG and/or IgA production when the suppressor is administered to a mammal, which includes human, sensitized by an allergen. The term "allergen" means any substance that can induce the IgE production and an allergic réaction. Clinical examples are pollen, a acarid, house dust, albumin, milk, a soybean etc. and experimental examples are ovalbumin, bovine gamma globulin, bovine serum albumin, an antigen protein of cedar pollen (Cryj I and Cryj II), an antigen protein for acarid (Derf I and Derf II) etc. The term "a dosage that the suppressor does not suppress or weakly suppresses the IgM, IgG and/or IgA production" means the dosage at which the suppression rate of the IgG, IgM and/or IgA is 10 % or less, preferably 5 % or less, more preferably 3 % or less as compared with those produced without administration of the selective suppressor of the IgE production of the present invention.

The selective suppressor of the IgE production of the present invention suppresses infiltration of an inflammatory cell to a tissue. The term "inflammatory cell" includes all of a lymphocyte, an eosinophil, a neutrophile and a macrophage, and an eosinophil and/or a neutrophile are preferable.

The effect of the selective suppressor on the IgE production of the present invention is potent for its direct action to B cells. Because the suppressor does not affect the humoral immunity concerning a biological protective reaction, it has many advantages, for example, little side effect such as infections etc.,

All of compounds that have the above effect are useful as an immunosuppressor regardless of the structure and one of the examples is the compound (I) or (I") of the present invention.

The compounds of the present invention also include ones which have the suppressive effect on a mitogen reaction and/or a cytokine reaction.

Specifically, the compounds have a potent antiproliferative effect on T and/or B cells and/or a suppressive effect on the IL-5 and/or IL-4 production. They selectively suppress the IL-4 and/or IL-5 production and do not suppress the IL-2 production.

The immunosuppressor or anti-allergic agent of the present invention is useful for prevention or a treatment of allergic diseases such as a rejection symptom against a transplantation of an organ or a tissue, a graft-versus-host reaction which is caused by a bone marrow transplantation, atopic allergic diseases (for example, a bronchial asthma, an allergic rhinitis, an allergic dermatitis and the like), a hypereosinophils syndrome, an allergic conjunctivitis, a systemic lupus erythematosus, a polymyositis, a dermatomyositis, a scleriasis, MCTD, a chronic rheumatoid arthritis, an inflammatory bowel disease, an injury caused by ischemia-reperfusion, a pollenosis, an allergic rhinitis, an urticaria, a psoriasis and the like.

When the compound of the present invention is administered as a immunosuppressor and/or anti-allergic agent, it can safely be administered both orally and parenterally. In the case of an oral administration, it may be in any usual forms such as tablets, granules, powders, capsules, pills, solutions, suspensions, syrups, buccal tablets, sublingual tablets and the like for the administration. When the compound is parenterally administered, any usual forms are preferable, for example, injections such as intravenous injections and intramuscular injections, suppositories, endermic agents, vapors and the like. An oral administration is particularly preferable.

A pharmaceutical composition may be manufactured by mixing an effective amount of the compound of the present invention with various pharmaceutical ingredients suitable for the administration form, such as excipients, binders, moistening agents, disintegrators, lubricants, diluents and the like. When the composition is of an

injection, an active ingredient can be sterilized with a suitable carrier to give a pharmaceutical composition.

Specifically, examples of the excipients include lactose, saccharose, glucose, starch, calcium carbonate, crystalline cellulose and the like, examples of the binders include methylcellulose, carboxymethylcellulose, hydroxypropylcellulose, gelatin, polyvinylpyrrolidone and the like, examples of the disintegrators include carboxymethylcellulose, sodium carboxymethylcellulose, starch, sodium alginate, agar, sodium lauryl sulfate and the like, and examples of the lubricants include talc, magnesium stearate, macrogol and the like. Cacao oil, macrogol, methyl cellulose and the like may be used as base materials of suppositories. When the composition is manufactured as solutions, emulsified injections or suspended injections, dissolving accelerators, suspending agents, emulsifiers, stabilizers, preservatives, isotonic agents and the like may be added. For an oral administration, sweetening agents, flavors and the like may be added.

Although a dosage of the compound of the present invention as an immunosuppressor and/or anti-allergic agent should be determined in consideration of the patient's age and body weight, the type and degree of diseases, the administration route or the like, a usual oral dosage for human adults is 0.05 - 100 mg/kg/day and the preferable dosage is 0.1 - 10 mg/kg/day. In the case that it is parenterally administered, although the dosage highly varies with administration routes, a usual dosage is 0.005 - 10 mg/kg/day, preferably, 0.01 - 1 mg/kg/day. The dosage may be administered in one or some separate administrations.

The present invention is further explained by the following Examples and Experiments, which are not intended to limit the scope of the present invention.

EXAMPLE

The abbreviations which are used in EXAMPLE mean the following.

Bn

benzyl

DME

1, 2-dimethoxyethane

DMF

N, N-dimethylformamide

DMSO

dimethylsulfoxide

MCPBA

m-chloroperbenzoic acid

MOM

methoxymethyl

Ms

methanesulfonyl

Рy

pyridyl

TBS

tert-butyldimethylsilyl

 \mathbf{Tf}

trifluoromethanesulfonyl

Ts

p-toluenesulfonyl

Example 1 Synthesis of the compounds (I-1), (I-2) and (I-3)

(Step 1) Synthesis of the compound 1

(Step 3) Synthesis of the compound 3

To 300 ml of a solution of 10.63 g (22.08 mmol) of a compound (III-1) in 1, 2-dimethoxyethane was added 3.60 g (3.12 mmol) of tetrakis(triphenylphosphine)palladium (0) at room temperature. To the mixture were added 80 ml of a solution of a compound 2 (9.50 g; 26.5 mmol) in 99% ethanol and 125 ml (250 mmol) of an aqueous solution of 2 M sodium carbonate and the reacted suspension was heated under refluxing in an argon atmosphere for 6 hours. After cooling, the reaction mixture was filtered off to remove an insoluble material and the filtrate was acidified with 2 N hydrochloric acid and extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. After the residue was purified by silica gel chromatography (hexane-ethyl acetate 1:1), the obtained product was recrystallized from hexane-ethyl acetate to give the compound 1 (11.57 g; 87 % yield) as colorless crystals. (Step 2) Synthesis of the compound (I-2)

To 60 ml of a suspension of the compound 1 (9.30 g; 15.48 mmol) in anhydrous dichloromethane was added 3.24 ml (23.22 mmol) of triethylamine, followed by addition of 1.80 ml (23.22 mmol) of methanesulfonyl chloride under ice-cooling and stirred for 2 hours at the same temperature. After the solvent was removed, the residue was acidified with 80 ml of 1 N hydrochloric acid and extracted with chloroform. The extract was washed with 1 N hydrochloric acid, 5 % aqueous solution of sodium bicarbonate and saturated brine successively, and the obtained product was dried and concentrated. The obtained residue was recrystallized from hexane-ethyl acetate to give 9.93 g of the compound (I-2) (95 % yield) as colorless crystals.

Stirred were 300 ml of a solution of 9.76 g (14.38 mmol) of the compound (I-2) and

765 mg (4.31 mmol) of palladium chloride (II) in 1, 4-dioxane under a hydrogen

atmosphere at room temperature for 15 hours. An insoluble material was removed off by filtration with celite and the obtained filtrate was concentrated. The residue was recrystallized from hexane-ethyl acetate to give the compound 3 (8.43 g; 100 % yield) as colorless crystals.

(Step 4) Synthesis of the compound (I-3)

To 40 ml of a solution of the compound 3 (4.01 g; 6.81 mmol) in anhydrous N, N-dimethylformamide were added successive, 1.45 g (10.5 mmol) of potassium carbonate and 1.21 ml (10.5 mmol) of prenyl bromide. After the mixture was stirred under a nitrogen atmosphere for 15 hours at room temperature, the reaction mixture was poured into 230 ml of 6 % aqueous citric acid and extracted with ethyl acetate. The extract was washed with 5 % citric acid, 5 % aqueous solution of sodium bicarbonate and saturated brine successively, followed by being dried and concentrated. The residue was recrystallized from hexane-ethyl acetate to give 4.01 g of the compound (I-3) (90% yield) as colorless crystals.

(Step 5) Synthesis of the compound (I-1)

To 38 ml of a solution of 3.80 g (5.79 mmol) of the compound (I-3) in dimethylsulfoxide was added 15 ml (60.0 mmol) of 4 N sodium hydroxide and the reaction mixture was warmed at 60 °C for 4 hours. After the mixture was cooled, 100 ml of 1 N hydrochloric acid was added to it and the obtained mixture was extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized from methanol to give 1.72 g of the compound (I-1) (70 % yield) as colorless crystals.

Reference Example 1 Synthesis of the compound 2

To a solution of the compound 4 (80.0 g; 0.287 mol) in 300 ml of N, N. dimethylformamide were added tert-butyldimethylsilyl chloride (45.87 g; 0.296 mol) and imidazole (21.46 g; 0.315 mol) and stirred at room temperature for 19 hours. The reaction mixture was poured into 1 L of water and extracted with ether. The extract was washed with water and saturated brine successively and then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 50:1) to give the compound 5 (97.20 g; 86 % yield) as a colorless oil.

To 850 ml of a solution of the compound 5 (97.20 g; 0.247 mol) in annydrous tetrahydrofuran was added 152 ml (0.252 mol) of a solution of 1.66 N n-butyllithium in hexane under a nitrogen atmosphere at -70 °C and stirred at the same temperature for 1.5 hours. To the mixture was added 171 ml (0.741 mol) of triisopropyl borate at -70 °C and stirred for 3 hours with gradually warming to room temperature. Under cooling with ice, 500 ml of water and 320 ml of 5 % citric acid were added to the mixture and stirred at the same temperature for 30 minutes. The solution was extracted with ethyl acetate and the extract was washed with water and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 2:1) to give the compound 2 (51.10 g; 58 % yield) as colorless crystals.

Reference Example 2 Synthesis of the compound (III-1)

(Step 1) Synthesis of the compound 8

To a solution of 15.30 g (62.4 mmol) of a compound 7 (Journal of Chemical Society, 1925, 1998) in 300 ml of 1, 2-dimethoxyethane was added 3.60 g (3.12 mmol) of tetrakis(triphenylphosphine)palladium (0) at room temperature. To the mixture were added a solution of 18.89 g (74.9 mmol) of a compound 6 (GB-A No. 2276162) in 80 ml of 99 % ethanol and 125 ml (250 mmol) of an aqueous solution of 2 M sodium carbonate and the reaction suspension was heated under refluxing in an argon atmosphere for 6 hours. After cooling, the reaction mixture was filtered off to remove an insoluble substance. The filtrate was acidified with 2 N hydrochloric acid and extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethylacetate 1:1) and recrystallized from hexane-ethyl acetate to give the compound 8 (15.68 g; 97 % yield) as colorless crystals.

(Step 2) Synthesis of the compound 9

To a suspension of the compound 8 (15.34 g; 59.39 mmol) in 240 ml of anhydrous dichloromethane were added 16.6 ml (118.8 mmol) of triethylamine and 6.93 ml (89.09

mmol) of methanesulfonyl chloride under ice-cooling and stirred at the same temperature for 2 hours. After the solvent was removed, the residue was acidified with 1 N hydrochloric acid (100 ml) and extracted with ethyl acetate. The extract was washed with 1 N hydrochloric acid, 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized from hexane-ethyl acetate to give the compound 9 (17.24 g; 86 % yield) as colorless crystals.

(Step 3) Synthesis of the compound (III-24)

To 210 ml of a suspension of the compound 9 (17.03 g; 50.63 mmol) in acetic acid were added 6.23 g (75.95 mmol) of sodium acetate and 3.91 ml (75.95 mmol) of bromine at room temperature and stirred at the same temperature for 16 hours. After 3.91 ml (75.95 mmol) of bromine was added to the reacted suspension and stirred at 50 °C for 4 hours, 3.91 ml (75.95 mmol) of bromine was added and stirred at 50 °C for 3 hours. The reaction mixture was poured into 1 L of 1 M aqueous sodium thiosulfate and stirred for 30 minutes. The precipitate was collected by filtration and washed with water. The obtained crystals were dissolved in 800 ml of chloroform, washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized from hexane-ethyl acetate to give the compound (III-24) (18.12 g; 86 % yield) as colorless crystals.

(Step 4) Synthesis of the compound 10

To a suspension of the compound (III-24) (15.80 g; 38.05 mmol) in 400 ml of 1, 2-dichloroethane was added 12.30 g (57.05 mmol) of 80 % m-chloroperoxybenzoic acid at room temperature and stirred at the same temperature for 17 hours. The reaction mixture was poured into 360 ml of 0.2 M aqueous sodium thiosulfate and extracted with chloroform. The extract was washed with 300 ml of 0.2 M sodium thiosulfate and 200 ml of 5 % of sodium bicarbonate (×2) successively, then dried and concentrated. The

residue (15.80 g) was dissolved in 330 ml of 1, 2-dimethoxyethane and 30 ml (120 mmol) of 4 N hydrochloric acid was added. After the reaction mixture was stirred at 50 °C for 12 hours and cooled, the solvent was removed and the residue was extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated to give the compound 10 (14.35 g; 97 % yield) as pale brown crystals.

(Step 5) Synthesis of the compound (III-1)

Using an analogous procedure for the compound (I-4), 12.63 g of the compound (III-1) as colorless crystals (88 % yield) was obtained from the compound 10 (12.0 g; 29.76 mmol).

Example 2 Synthesis of the compound (I-4)

(Step 1) Synthesis of the compound 11

To a solution of 816 mg (2 mmol) of a compound (III-2) in 40 ml of 1, 4-dioxane were added 114 mg (0.1 mmol) of tetrakis(triphenylphosphine)palladium (0), 748 mg (2.09 mmol) of the compound 2 and 589 mg (2.77 mmol) of powders of anhydrous potassium phosphate at room temperature and heated in a nitrogen atmosphere at 85 °C for 23 hours. The reaction mixture was cooled and extracted with ethyl acetate. The extract was washed with 2 N hydrochloric acid, 5 % aqueous sodium bicarbonate and saturated

brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 4:1) and crystallized from pentane to give the compound 11 (745 mg; 67 % yield) as pale yellow crystals.

(Step 2) Synthesis of the compound (I-4)

To a solution of the compound 11 (557 mg; 1 mmol) in 10 ml of dichloromethane was added 259 mg (1.2 mmol) of 80 % m-chloroperbenzoic acid at room temperature and stirred for 15 hours. The reaction mixture was poured into 0.1 M aqueous sodium thiosulfate and extracted with ethyl acetate. The extract was washed with 0.1 M aqueous sodium thiosulfate, 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and concentrated. To a solution of 650 mg of the obtained residue in 5 ml of methanol was added a solution of 1 M sodium methoxide in 2 ml of methanol under ice-cooling and stirred for 30 minutes. After the reacted solution was acidified with 2 N hydrochloric acid and extracted with ethyl acetate, the extract was washed with saturated brine, then dried and concentrated. To a solution of 647 mg of the obtained residue in 10 ml of tetrahydrofuran was added 2 ml of 1 M tetrabutylammonium fluoride in tetrahydrofuran under ice-cooling and stirred for 30 minutes. The obtained reaction mixture was poured into 2 N aqueous hydrochloric acid under ice-cooling to acidify and extracted with ethyl acetate. The ethyl acetate layer was washed with water, 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 2:1) to give 275 mg of the compound (I-4) (62 %yield) as powders.

Reference Example 3 Synthesis of the compound (III-2)

(Step 1) Synthesis of the compound 13

To 26 ml of a solution of 2.61 g (10 mmol) of a compound 12 (Journal of Organic Chemistry, 1987, 52, 4485) in dimethylformamide were added 400 mg (10 mmol) of 60 % sodium hydride dispersion in oil and 836 mg (11 mmol) of chloromethyl methyl ether under ice-cooling and stirred for 30 minutes. After warming to room temperature, it was further stirred for 1 hours. The reaction mixture was concentrated under reduced pressure and extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized from ethyl acetate-hexane-pentane to give the compound 13 (2.8 g; 92 % yield).

(Step 2) Synthesis of the compound 14

Using an analogous procedure for the compound 8, the compound 14 was obtained as a pale yellow oil (96 % yield) from the compound 13 and the compound 15 (Tokyo Kasei Kogyo Co., Ltd.).

(Step 3) Synthesis of the compound 16

To 16 ml of a suspension of 1.38 g (4.3 mmol) of the compound 14 in methanol was added 4 ml of 2 N aqueous hydrochloric acid and stirred for 1 hour under warming at 60 °C. The reaction mixture was concentrated under reduced pressure and extracted with ethyl acetate. The extract was washed with 5 % aqueous sodium bicarbonate and

saturated brine successively, then dried and concentrated to give the compound 16 (1.12 g; 94 % yield) as a yellow crystalline residue.

(Step 4) Synthesis of the compound (III-2)

To 12 ml of a solution of the compound 16 (1.12 g; 4.05 mmol) in anhydrous dichloromethane was added 1.02 ml (6.08 mmol) of trifluoromethanesulfonic anhydride and then 980 ml (12.2 mmol) of pyridine under ice-cooling and stirred for 30 minutes. The reaction mixture was allowed to warm to room temperature and stirred for additional 2 hours and the solvent was removed. The residue was extracted with ethyl acetate, washed with 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and concentrated. The obtained crude product was purified by silica gel chromatography to give 1.23 g of the compound (III-2) (74 % yield) as a white crystalline residue.

Example 3 Synthesis of the compounds (I-5), (I-6) and (I-7)

(Step 1) Synthesis of the compound (I-5)

Using an analogous procedure for the compound 1 in Example 1, 634 mg (0.972 mmol) of the compound (I-5) was synthesized from 881 mg (1.50 mmol) of the compound (III-11) and 370 mg (1.95 mmol) of 3-trifluoromethyl boric acid. 65 % yield.

(Step 2) Synthesis of the compound 18

Using an analogous procedure for the compound 3 in Example 1, the compound 18 (360 mg; 0.640 mmol) was synthesized from 433 mg (0.664 mmol) of the compound (I-5). 96 % yield.

(Step 3) Synthesis of the compound (I-6)

Using an analogous procedure for the compound (I-3) in Example 1, 185 mg (0.293 mmol) of the compound (I-6) was synthesized from the compound 18 (170 mg; 0.302 mmol). 97 % yield.

(Step 4) Synthesis of the compound (I-7)

Using an analogous procedure for the compound (I-1) in Example 1, 85 mg (0.179 mmol) of the compound (I-7) was synthesized from 150 mg (0.238 mmol) of the compound (I-6). 75 % yield.

Reference Example 4 Synthesis of the compound (III-11)

(Step 1) Synthesis of the compound 19

Using an analogous procedure for the compound 10 in Reference Example 2, the compound 19 (24.04 g; 103 mmol) was synthesized from the compound 7 (40.03 g; 163 mmol). 63 % yield.

(Step 2) Synthesis of the compound 20

To a solution of tert-butylamine (5.0 ml; 47.8 mmol) in 10 ml of toluene was added iodine (5.94 g; 23.39 mmol) under a nitrogen atmosphere and stirred for 50 minutes at room temperature. The compound 19 (5.46 g; 23.43 mmol) was added to the solution under ice-cooling, then warmed to room temperature and stirred for 6 days. The reaction mixture was poured into 1 M of aqueous sodium thiosulfate and extracted with ethyl acetate. The extract was washed with 1 M aqueous sodium thiosulfate and saturated brine successively, then dried and concentrated to give the compound 20 (8.30 g; 23.16 mmol). 99 % yield.

(Step 3) Synthesis of the compound 21

Using an analogous procedure for the compound 1 in Example 1, the compound 21 (2.10 g; 4.87 mmol) was synthesized from the compound 20 (8.70g; 24.20 mmol). 20 % yield.

(Step 4) Synthesis of the compound (III-11)

Using an analogous procedure for the compound (I-2) in Example 1, 2.61 g (4.44 mmol) of the compound (III-11) was synthesized from the compound 21 (3.20 g; 7.42 mmol). 60 % yield.

Example 4 Synthesis of the compound (I-9)

(Step 1) Synthesis of the compound 22

Using an analogous procedure described in Reference Example 1, 1.53 g (3.63 mmol) of the compound (I-1) was silylated and the obtained crude product was crystallized from methanol to obtain the compound 22 (2.62 g; 95 % yield) as colorless crystals.

(Step 2) Synthesis of the compound 23

To a solution of the compound 22 (2.38 g; 3.1 mmol) in 90 ml of acetone were added 415 mg (3.74 mmol) of trimethylamine-N-oxide dihydrate and 1.60 ml of 5 % aqueous solution of osmium tetroxide (0.3 mmol) and stirred for 1 hour at room temperature. After 20 ml of water was added to the reaction mixture, 4.0 g of sodium bicarbonate and 4.0 g of sodium bisulfite were added and stirred for 30 minutes. The reaction mixture was concentrated under reduced pressure and the residue was extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated.

A solution of 1.96 g (9.16 mmol) of sodium periodate in 33 ml of water was added dropwise to a solution of 2.46 g of the residue obtained by the above method in 90 ml of ethanol with stirring at room temperature. After stirring for 2 hours, 100 ml of water was added to the reaction mixture and the precipitate was collected by filtration and

dried to give the compound 23 (1.98 g; 87 % yield) as powder.

(Step 3) Synthesis of the compound (I-9)

To a suspension of 146 mg (0.38 mmol) of n-propyltriphenylphosphonium bromide in 2.5 ml of anhydrous tetrahydrofuran was added 32 mg (0.29 mmol) of potassium tert-butoxide in a nitrogen atmosphere at 0 °C and stirred at the same temperature for 1 hour. The reaction mixture was cooled to -78 °C, a solution of the compound 23 (70 mg; 0.095 mmol) in 1.5 ml of anhydrous tetrahydrofuran was added and stirred for 30 minutes at the same temperature and for additional 1 hour at room temperature. The reaction mixture was poured into an ice-cooling aqueous solution of saturated ammonium chloride and extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated.

Using an analogous procedure described in Example 2 Step 2, 70 mg of the residue obtained by the above method was desilylated and the obtained crude product was purified by silica gel chromatography (toluene-ethyl acetate 4:1) to give 37 mg of the compound (I-9) as pale yellow crystals.

Example 5 Synthesis of the compound (I-565)

(Step 1) Synthesis of the compound (I-563)

Using an analogous procedure for the compound 2 in Example 1, 850 mg of the compound (I-563) was obtained from a compound (III-27) (800 mg; 1.59 mmol) and the

compound 2 (1.25 g; 3.50 mmol) as colorless crystals (86 % yield).

(Step 2) Synthesis of the compound (I-565)

To a solution of 120 mg (0.193 mmol) of the compound (I-563) in 3 ml dimethoxyethane and 1 ml of ethyl acetate was added 2.4 ml of 4 N hydrochloric acid at 40 °C and stirred at the same temperature for 2 hours 20 minutes. After cooling, the reaction mixture was neutralized with aqueous solution of saturated sodium bicarbonate and extracted with ethyl acetate. The extract was washed with saturated aqueous solution of sodium bicarbonate and saturate brine, then dried and concentrated. The obtained crude product was crystallized from hexane-ethyl acetate to give 93 mg of the compound (I-565) as pale yellow crystals (92 % yield).

Reference Example 5 Synthesis of the compound (III-27)

(Step 1) Synthesis of the compound 24

In a mixture of 17.5 ml of tert-butanol and 5.3 ml of 2-methyl-2-butene was suspended 415 mg (1.00 mmol) of the compound (III-24), 6.7 ml of aqueous solution of 724 mg (8.00 mmol) of sodium chlorite and 968 mg (6.20 mmol) of sodium dihydrogen phosphate dihydrate was added and stirred at the same temperature for 4 hours 30 minutes. The solution of 1 M sodium thiosulfate was added to the reaction mixture and the mixture was extracted with ethyl acetate. Then, organic layer was extracted with aqueous solution of saturated sodium bicarbonate. Then the aqueous layer was

acidified with conc. hydrochloric acid and extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated to give the compound 24 (384 mg; 89 % yield) as colorless crystals.

(Step 2) Synthesis of the compound (III-27)

To 10 ml of a suspension of the compound 24 (1.50 g; 3.48 mmol) in tert-butanol were added 0.533 ml (3.83 mmol) of triethylamine, followed by 0.825 ml (3.83 ml) of diphenyl phosphate azide, and the mixture was stirred at 100 °C for 23 hours. After the reaction mixture was cooled, water was added to it and the mixture was extracted with ethyl acetate. The extract was washed with saturated aqueous solution of sodium bicarbonate and saturated brine, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 2.5:1) to give 1.43 g of the compound (III-27) as colorless form product (82 % yield).

Example 6 Synthesis of the compound (I-480)

To a solution of 120 mg of a compound which was eliminated a Boc group of the compound (I-479) in 2 ml of tetrahydrofuran and 0.5 ml of methanol were added 33 ml (0.34 mmol) of 3-methyl-2-butenal and 90 ml (0.26 mmol) of 3 M aqueous solution of sulfuric acid at 0 °C and stirred for 10 minutes. Further, 19.6 mg of sodium borohydride was added in small portions to the mixture and stirred at room temperature for 1 hour. The saturated aqueous solution of sodium bicarbonate was added to the reaction mixture and extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated. The residue was purified by silica gel

chromatography (hexane-ethyl acetate 3:1) to give 98 mg of the compound (I-480) as colorless crystals (78 % yield).

Example 7 Synthesis of the compound (1-628)

Using an analogous procedure for the compound 1 in Example 1, 1.2 g (2 mmol) of the compound (III-44) was reacted with 551 mg (2.2 mmol) of 4-bromomethanesulfonyl anilide were reacted, followed by desilylated by an analogous procedure described in Example 1 Step 2. The obtained crude product was crystallized from ethyl acetatehexane to obtain 760 mg of the compound (I-628) as pale yellow crystals (73 % yield).

Reference Example 6 Synthesis of the compound (III-44)

(Step 1) Synthesis of the compound 25

Using an analogous procedure for the compound 5 in Reference Example 1, a crude product was synthesized by the reaction of 22.2 g (52.7 mmol) of the compound 21, 8.95 g (132 mmol) of imidazole and 17.5 g (1.16 mmol) of tert-butyldimethylsilyl chloride. The

obtained product was purified by silica gel chromatography (ethyl acetate:hexane=1:20) and crystallized from ethyl acetate-hexane to give 29.7 g of the compound 25 as colorless crystals (85 % yield).

(Step 2) Synthesis of the compound (III-44)

Using an analogous procedure for the compound 2 in Reference Example 1, 402.7 g (610 mmol) of the compound 25 was reacted with 678 ml (814 mmol) of 1.08 N s-butyl lithium in cyclohexane, followed by addition of 282 ml (1.22 mol) of triisopropyl borate to give 246 g of the compound (III-44) as colorless powders (65 % yield):

Example 8 Synthesis of the compound (I-233)

In an argon atmosphere, 2.87 g (8.0 mmol) of the compound 20 was dissolved in 32 ml of dimethoxyethane and 8 ml of ethanol, 3.01 g of the compound 2 and 16 ml of 2 M aqueous solution of sodium carbonate were added and the reaction mixture was degassed. To the mixture was added 462 mg (0.4 mmol) of palladium tetrakistriphenylphosphine and the mixture was heated under refluxing for 2 hours. After the reaction mixture was cooled to room temperature, 2.02 g (12.0 mmol) of 4-methylthiophenyl boronic acid, 462 mg (0.4 mmol) of palladium tetrakistriphenylphosphine, 16 ml of 2 M aqueous solution of sodium carbonate, 32 ml of dimethoxyethane and 8 ml of ethanol were added to it. Then, the reaction mixture was degassed again and heated under refluxing for 16 hours. After the reaction mixture

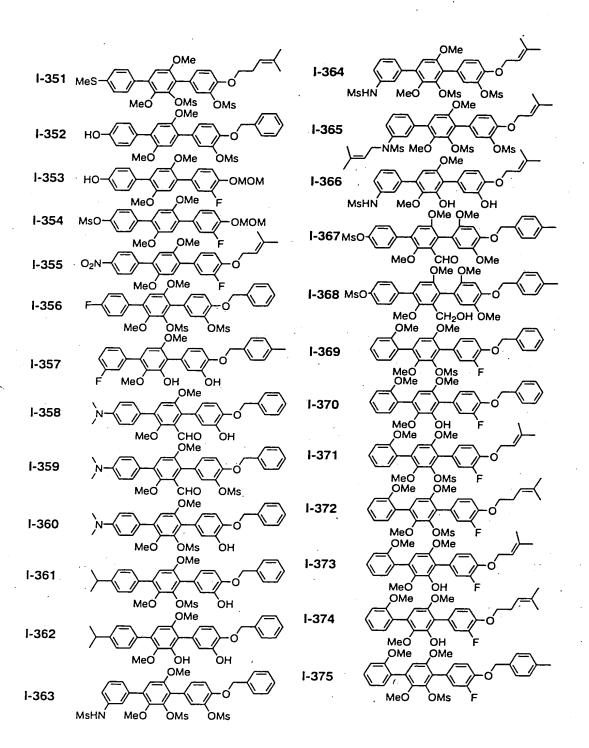
was cooled to room temperature, 100 ml of 5 % aqueous citric acid was added and stirred at the same temperature for 1 hour. Ethyl acetate was added to the reaction mixture and the organic layer was washed with 5 % aqueous citric acid, water, saturated aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 3:1) to obtain 2.13 g of crude crystals. The obtained crude crystals were recrystallized from hexane-ethyl acetate to give 1.66 g of the compound (I-233) as colorless crystals (44 % yield)

Example 9 Synthesis of other compounds

Following compounds (I) were synthesized by analogous procedures described above. The structures and physical constants of the compounds (III) and (I) are as follows.

j

ţ



ОМе I-651 I-664 HO но ю MeÓ ОМе ОМе 1-652 1-665 HO OMs OMe MeÓ MeO₂CMeO **ÒMs** но но́ ОМе I-653 1-666 MsO MeO₂C MeO OMs OMe ÒMs OMs OMe MeÓ `OMs I-654 1-667 MsO HO₂Ċ МеО 8Не MeÓ ÒMs 2MO ОМе I-655 I-668 HO ономе HO₂Ċ MeÒ НÓ MeÓ но ю 1-656 MsO-ОМе 1-669 MsO NH₂ OMe MeÓ èMS OMs OMe MeÓ `OMs NH₂ I-657 HO-·o I-670 MsO NOH NH₂ OMe MeÓ НÓ OMs OMe MeÓ `OMs I-658 MsO-٠ó I-671 MsO-`OMs `OMs MeÓ ÒMs èMS OMe 1-659 MsO I-672 MsO OMs OMe `OMs OMs OMe MeÓ OMs H₂N I-660 MsO i-673 ÒMs `OMs ОМе OMe MeÓ OH ACHN I-661 I-674 MsO OH OMe EtÓ Ю MeÓ ÒMs `OMs I-662 HO **MsHN** ОМе OH OMe ю EtÓ I-675 MsO-1-663 HO MeÓ ÒMs ÒMs EtO ю ю

}

, .

CH₂OH ОМе I-1013 I-1001 нон₂с ОМе MeÓ но но I-1014 ACHN MeŌ ОМе I-1002 HOH2C MeÓ **OMs** `OMs ОМе OMe `OMs `OMs MeÒ I-1015 ACHN ОМе 0 H I-1003 H₃C-C-N-MeÓ ÒMs ÒMs ОМе нó но́ I-1016 MsO ОМе I-1004 _{F₃C-}Č MeÓ OMs ٠ó ОМе MeÓ `OMs ÒMs I-1017 ACHN ОМе O H I-1005 F₃C-C-N но MeÓ но́ ОМе MeÓ ÒMs ÒMs I-1018 HO I-1006 MeÓ Ю I-1019 O H H₃C-C-N-ОМе OH OMe MeÓ I-1007 H₂N OMs OMe MeÓ `OMs MeÓ но нó i-1020 MsO ОМе I-1008 CI-OMs MsÓ OMs F₃C ОМе MeÓ но но 1-1021 H₂N ОМе MeÓ НÓ I-1009 CI-I-1022 O H H₃C-C-N ОМе MeÓ ÒMs `OMs OMe ОН MeÓ I-1010 CI-MeÓ но но I-1023 MsO ОМе MsÓ ÒMs `OMs I-1011 CI ОМе MeÓ `OMs èMS I-1024 HO СН₂ОН OH OMs но I-1012 нон₂с i-1025 MsO-MeÓ. OMs `OMs

ОМе ОМе I-1113 MsO I-1101 NHAc OMe ÖMs MeÓ I-1114 MsO I-1102 HO NHAc MeÓ òMs ОМе MeÓ I-1115 HO-I-1103 HO NH₂ OMe но `ОМе `ОН I-1116 HO I-1104 'n I-1105 MsO MeÓ ОМе `OMs I-1106 MsO MeÓ **О**Ме i-1119 O2N ОМе `OMs ÒMs I-1107 ОМе ю ОMe I-1120 O2N MeÓ ю I-1108 I-1121 HO-I-1109 ОМе CHF2 I-1122 AcO I-1110 OH OMe ОМе I-1111 OMs OMe MeÓ I-1112 I-1125 HO

ОМе I-1138 HO-ОМе OH OMe I-1126 N `ОМе OMs I-1139 HO Me I-1127 HO OH OMe MeO но́ `ОМе I-1140 HO ОМе OH OMe MeÓ I-1128 N MeÓ HO I-1141 HO Me но́ I-1129 MsO ОМе OMs Me OMe MeÓ I-1142 MsO OMs OMe I-1130 MsO MeÓ I-1143 MsO `OMs I-1131 1-1144 MsO Ме OMs OMe MeÓ `OMs I-1132 HO I-1145 MsO ОМе I-1133 MsO OMs OMe MeÓ ÒMs ОН EtÓ OMs OMe ОМе I-1146 HO OH OMe I-1134 MsO MeÓ но ОМе EtÓ OMs OMe ОМе I-1147 HO но MeÓ но I-1135 HO-OH OMe ОМе ΕŧÓ `ОМе I-1148 MsO MeÓ `OMs `OMs I-1136 MsO ОМе MeÓ ÒMs èMS ОМе I-1149 HO I-1137 MsO MeÓ он (он. ОМе MeÓ ÒMs ÒMs I-1150 HO-MeÓ ю ю

)

ОМе I-1263 HO ОМе I-1251 HO OH OMe MeÓ I-1264 `ОМе I-1252 HO ОМе OH OMe I-1265 MeO Me ÒMs I-1253 HO-MeÓ) ВМе I-1266 HO НÓ I-1254 HO Ме MeÓ но́ I-1267 MsO ОМе I-1255 0 **I-1268** F₃C-C MeÓ OMs Me MeÓ ÒMs I-1256 ·NHSO₂Me MeÓ I-1269 Ме NHSO₂Et I-1257 I-1270 MeÓ OMs OMe MeÓ I-1258 I-1271 ОМе MeÓ ю I-1259 MeO `ОМе ОМе MeÓ I-1272 ОМе I-1260 I-1273 ОМе OH Me MeÓ I-1261 MsO-OMs ОМе I-1274 ОМе ÒМе I-1262 HO I-1275 `OMs

Table 1

m.p.201-203°C 'HNMR(DMSO-dg) & 3.44(s.3H)
¹ HNMR(CDCl ₃) & 3.47(s,3H),3.94(s,3H),7.13-7.24(m,3H),7.50-7.59(m,2H),7.40-7.53(m,2H),7.65-7.78(m,2H) ¹ R(KBr)1700,1562, 1479, 1438, 1303, 1302, 1103,
m.p.181.182°C
¹ HNMR(CDCl ₃) δ 3.21(s,3H),3.40(s,3H),3.49(s,3H),3.90(s,3H),4.81(s,2H),4.85(s,2H),6.86(s,1H),7.32-7.40(m,2H),7.60-7.68(m,
IR(KBr)1504,1467,1370,1235,1152,1038,1010,870,846,785
¹ HNMR(CDCl ₃) & 3.21(s, 3H), 3.45(s, 3H), 3.48(s, 3H), 3.96(s, 3H), 7.40(d, J=8.9Hz, 2H), 7.54(d, J=8.9Hz, 2H) IR(KBr)1446, 1426, 1409, 1370, 1362, 1184, 1153, 1029, 973, 920, 870, 849, 776cm ⁻¹
Tokyo Kasei Kogyo Co., Ltd.
¹ HNMR(CDCl ₃) δ:3.51(s,3H),3.92(s,3H),6.05(s,2H),6.92(d,J=8.1Hz,1H),7.02(d,J=8.1Hz,1H),7.07(s,1H),7.18(s,1H),10.40(s,1H)
IR(KBr)1691,1600,1577,1474,1447,1422,1388,1352,1252,1237,1227,1201,1134,1124,1082,1038cm-1
HNMR(CDCl ₃) & 3.20(s, 3H), 3.77(s, 3H), 3.90(s, 3H), 6.86(s, 1H), 6.98(s, 1H), 7.32-7.37(m, 2H), 7.51-7.56(m, 2H)
1HNMR(CDCl ₃) & 3.76(s 3H) 3 and 3H) C 21. (m, 3H), 7.53-7.63(m, 3H), 7.71(d, J=2.1Hz, 1H)
oil
1HNMR(CDCl ₃) § 2.72(s,3H),3.11(s,3H),3.75(s,3H),3.92(s,3H),5.17(s,2H),7.05.7.16(20,01),7.05.7.16(20,01)

Table 2

lio	
'HNMR(CDCl ₃) δ 3.	1HNMR(CDCl3) & 3.51(s,3H),3.70(s,3H),3.86(s,3H),3.89(s,3H),5.98(s,
m.p.120-122°C'HNMR(CDCl3) δ	R(CDCl ₃) § 3.20(s,3H),3.53(s,3H),3.70(s,3H).3.89(s,3H) § 98(s,9H) & 6.2(c,1H) & 6.2(c,1H) & 6.2(c,1H)
III-13 (m,2H)	(m,2H),7.56-7.61 (m,2H),0.00(s,1H),0.00(s,1H),1.32-1.37(m,2H),7.56-7.61
IR(KBr)1505,1468,14	IR(KBr)1505,1468,1427,1375,1237,1175,1153,1100,1072,1003,9725m-1
m.p.146-147°C	
¹ HNMR(CDCl ₃) δ 3.85(s,3H),6.9	.5(s,3H),6.94-7.01(m,2H),7.38-7.56(m.6H)
IR(KBr)1603,1522,14	IR(KBr)1603,1522,1481,1288,1255,1036cm ⁻¹
'HNMR(CDCl ₃) δ 3.07(s,6H),3.4	7(s,6H),3.49(s,3H),3.92(s,3H),6.95(brs,2H),7.90(s,1H),7.51(d, 1-9.711; off),3.49(s,3H),3.92(s,3H),6.95(brs,2H),7.90(s,1H),7.51(d, 1-9.711; off),3.49(s,3H),6.95(brs,2H),7.90(s,1H),7.51(d, 1-9.711; off),3.49(s,3H),6.95(brs,2H),7.90(s,1H),7.81(s
'HNMR(CDCl ₃) § 3.48	1HNMR(CDCl ₃) & 3.48(s, 3H), 3.50(s, 3H), 3.92(s, 3H), 6.81(s, 1H), 7.70(s, 4H)
1HNMR(CDCi3) § 3.24	1HNMR(CDCl3) δ 3.24(s,3H),3.49(s,3H),3.94(s,3H),7.91(s,1H),7.49(3,1-9,41), 2.19(s,1-1-9,41), 2.19(s,1
m.p.88-89°C	(4,017), 1.11(8,111), 1.42(a,0-8.4Hz,2H), 1.65(a,0-8.4Hz,2H), 10.41(8,1H)
¹ HNMR(CDCl ₃) δ 2.20(s,3H),2.3 IR(KBr)1479,1366,1195.1173.11	¹ HNMR(CDCl ₃) δ 2.20(s,3H),2.38(s,3H),3.19(s,3H),7.06(s,1H),7.33(s,4H),7.45(s,1H) IR(KBr)1479,1366,1195,1173,1151,970,865,850,706,1
m.p.72-73°C	11300,1300,000,000,000,000,000,000,000,0
'HNMR(CDCl ₃) δ 3.20	'HNMR(CDCl ₃) § 3.20(s,3H),7.20(dd,J=6.6,8.4Hz,1H),7.35-7.44(m.3H),7.53-7.60(m.9H)
IR(KBr)1514,1481,136	IR(KBr)1514,1481,1364,1335,1182,1144,979,870,798cm ⁻¹
m.p.144-146°C	
¹HNMR(CDCl₃) δ 3.45	¹ HNMR(CDCl ₃) δ 3.45(s, 3H), 3.89(s, 3H), 4.99(brs, 2H), 6.19(s, 1H), 6.42(s. 1H), 6.88-6.94(m. 2H), 7.44, 7.40(m. 2H)
IR(KBr)3471,3392,298	$1R(KBr)3471,3392,29863,1612,1596,1461,1410,1223,1175,1099,1079,1011cm^{-1}$

Table 3

	Oil
111.21	¹ HNMR(CDCl ₃) & 1.09(t,J=7.5Hz,3H),1.82-1.94(m,2H),3.58(s,3H),3.86(s,3H),4.06(t,J=6.6Hz,2H),6.63(s,1H),6.94-6.99(m,2H), 7.44-7.49(m,2H)
	m.p.83.5-84.5 C
111-22	1HNMR(CDCl ₃) & 3.20(br, 1H), 3.54(s, 3H), 3.85-3.90(m, 2H), 3.86(s, 3H), 3.90(s, 3H), 4.29-4.32(m, 2H), 6.66(s, 1H), 6.95-7.00(m, 2H), 7.45-7.50(m, 2H)
	m.p.99-101°C
111-23	¹ HNMR(CDCl ₃) δ 3.20(s,3H),3.39(s,3H),3.91(s,3H),3.99(s,3H),6.89(s,1H),7.37(d,J=8.7Hz,2H),7.64(d,J=8.7Hz,2H) IR(KBr)1747,1466,1367,1348,1153,1059,959,959,703,750,750,750,750,750,750,750,750,750,750
111.24	
111.25	¹ HNMR(CDCl ₃) ô 2.46(broad 1H) 3 21(s 3H) 3 49(s 3H) 2 60(s 3H) 2 60(s 3H) 7.32-7.43(m, 2H), 7.58-7.69(m, 2H), 10.42(s, 1H)
	m.p.109.110°C
111.26	'HNMR(CDCl ₃) & 1.97(br,1H),3.21(t,J=6.6Hz,2H),3.86(s,3H),3.89(s,3H),3.90(t,J=6.9Hz,2H),6.76(s,1H),6.95-7.00(m,2H),7.49.
	IR(KBr)3600-2800(br), 1609, 1581, 1511, 1462, 1441, 1426, 1385, 1289, 1250, 1937, 1170, 1115, 1975, 1975, 1975
	foam
111.27	¹ HNMR(CDCl ₃) δ 1.52(s,9H),3.20(s,3H),3.41(s,3H),3.90(s,3H),6.16(s,1H),6.76(s,1H),7.35(d,J=8.7Hz,2H),7.61(d,J=8.7Hz,2H) IR(KBr)3371.1718 1505 1497 1367 1367 1367 1367 1367 1367 1367 136
	1 201,1201,1241,1151,812cm 1

Table 4

	m.p.167.170°C	-
1 11	¹ HNMR(CDCl ₃) & 2.73(s,3H),3.74(s,3H),3.92(s,3H),7.08-7.17(m,3H),7.31-7.36(m,2H) ¹ R(CHCl ₃)2934,1593,1560,1519,1477,1426,143,1526,152	
=	m.p.140-142°C	
	¹ HNMR(CDCl ₃) δ 3.27(s,3H),3.79(s,3H),3.90(s,3H),6.86(s,1H),6.97(s,1H),7.29(ddd,J=8.4,2.2,0.9Hz,1H),7.39(dd,J=11.0,2.2Hz,1H),7.43(t,J=8.4Hz,1H)	
	HNMR(CDCl ₃) & 3.77(s.3H) 3.91(s.3H) 3.90s(c.9H) 6.0s(c.3H) 7.0s(c.9H) 6.0s(c.9H) 6.0s(c.9H) 6.0s(c.9H)	
_=	1HNMR(CDCl ₃) & 3.78(s, 3H), 3.91(s, 3H), 6.88(s, 1H), 6.97(s, 1H), 7.60(d, J=8.1Hz, 2H), 8.09(d, J=8.1Hz, 2H)	
	m.p.147-148°C	
= =	'HNMR(CDCl ₃) & 3.79(s,3H),3.92(s,3H),6.89(s,1H),7.01(s,1H),7.64-7.69(m,2H),8.26-8.31(m,2H) IR(KBr)3600-2800(br),1595-1511-1490-1493-1254-1243-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1243-1254-1243-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1243-1254-1254-1254-1254-1254-1254-1254-1254	
-Γ	¹ HNMR(CDCl ₃) δ 3.31(s,3H), 3.53(s,3H), 3.94(s,3H), 7.19(s,1H), 7.39(ddd,J=8.3,2.3,1.0Hz,1H), 7.39(ddd,J=8.3,2.3,1.0Hz,1H), 7.39(dd,J=10.3,2.3Hz,1H)	
1 7 8	"HNMR(CDCl ₃) & 0.13(s,6H),0.97(s,9H),2.51(s,3H),3.73(s,3H),5.93(s,3H),5.09(s,2H),6.84-6.99(m,2H),6.89(s,1H),7.05(s,1H),	
E	m.p.124-128°C	
H- H	¹ HNMR(CDCl ₃) δ 2.62(s,3H),3.74(s,3H),3.91(s,3H),5.19(s,2H),7.00-7.18(m,4H),7.30-7.49(m,5H)	
1	7,201,101,1400,1309,1148,1118,1082,1025,969,872cm ⁻¹	

Table 5

	lio
111-36	¹ HNMR(CDCl ₃) δ 0.13(s,6H),0.96(s,3H),3.01(s,3H),3.69(s,3H),3.86(s,3H),4.81(s,2H),5.08(s,2H),6.88-6.94(m,3H),7.30-7.47(m,5H)
	IR(KBr)3023,2932,2858,1579,1512,1471,1381,1964,1130,1062, -1
	oil
111.37	¹ HNMR(CDCl ₃) & 0.78(t,J=7.5Hz,3H), 1.03-1.25(m,2H), 1.38-1.47(m,2H) 3 68.3 79(m,9H), 9.76(,9H), 9.76(,9H)
	3(s,1H),6.81(dd,J=1.8,8.4Hz,1H),6.86(s,1H),6.95-6.97(m,2H),7.36-7.46(m,5H) IR(CH ₃ Cl):3543 3200-9800(c, 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1
	m.p.104·105°C
III-38	¹ HNMR(CDCl ₃) δ 3.11(s,3H),3.77(s,3H),3.90(s,3H),5.17(s,2H),6.84(s,1H) 6 98(s,1H) 7 11(1,11-0.711 1 1 1 1 1 1 1
	1(d,J=2.4Hz,1H)
	IR(KBr)3600-2800(br), 1503, 1420, 1389, 1364, 1246, 1215, 1185, 1139, 1117, 1967, 1969
	m.p.134-136°C
111.39	
	8.7Hz,1H),8.01(d,J=2.4Hz,1H)
	IR(KBr)3434,1620,1532,1494,1413,1280,1222,1206,1133,1108,10371
	m.p.100-101°C
III-40	¹ HNMR(CDCl ₃) & 3.55(s,3H),3.77(s,3H),3.90(s,3H),5.26(s,2H),6.84(s,1H),6.97(s,1H),7.16.7.31(m,3H)
	1K(KBr)3600-2800(br),1524,1503,1449,1401,1380,1268,1246,1222,1200,1156,1126,1098,1078,1030cm ⁻¹
111.41	
	IR(KR) 3600 2800 2.3 120 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
	7.2007.2007.00(01), 1720, 1593, 1531, 1509, 1427, 1393, 1245, 1223, 1214, 1201, 1162, 1137, 1105, 1029cm ⁻¹

Table 6

	foam
111.49	1HNMR(CDCl3) & 2.36(s,3H),3.74(s,3H),3.88(s,3H),6.69(dd,J=0.6.3.6Hz.1H) 6.85(s.1H) 6.90(s.1H) 7.94 7.97(s.1H)
7	=1.8,8.7Hz,1H),7.60(d,J=3.6Hz,1H),7.64(d,J=1.2Hz,1H),7.80-7.83(m,2H),8.02(d,J=8.4Hz,1H) [R(KBr)3600-2800(hr) 1508 1463 1444 1491 1273 126 126 127 127 127 127 127 127 127 127 127 127
	foam
111-43	¹ HNMR(CDCl ₃) δ 3.14(s,3H),3.51(s,3H),3.93(s,3H),5.20(s,2H),7.17(d,J=8.4Hz,1H),7.20(s,1H),7.38(m,6H),7.59(d,J=1.8Hz,1H),7.00.40(s,1H)
	IR(CHCl ₃)2941,1703,1613,1603,1580,1513,1475,1436,1979,1965,1962,1962,1962,1962,1962,1962,1962,1962
111.44	¹ HNMR(CDCl ₃) δ 0.20(s,6H),0.13(s,6H),0.77(s,9H),0.97(s,9H),3.73(s,3H),3.83(s,3H)) ξ 000(s,6H), 0.20(s,6H),0.13(s,6H),0.77(s,9H),3.73(s,3H),3.83(s,3H), ξ 000(s,6H), ξ 000
£	.01(s, 1H),7.30.7.49(m,5H)
	mp 106-108°C
111.45	1HNMR (CDCl3)
	IR(KBr)3410,1460,1422,1362,1146,1037,874,915,787, m.1
	mp123.124°C
111.46	1HNMR(CDCl3) & 2.48(brs, 1H), 3.21(s, 3H), 3.43(s, 3H), 3.94(s, 3H), 4.93(prs, 9H), 6.92(c, 11), 7.52(c, 1, 1), 2.52(c)
:	J=9.0Hz, 2H)
	IR(KBr)3524,1463,1352,1233,1152,1009,979.869cm ⁻¹
III.47	¹ HNMR(CDCl ₃) δ 1.93(s,6H),2.45(s,6H),4.75(brs,1H),6.87-6.96(m.4H)
	IR(KBr)3367,1612,1509,1433,1214, 990, 824cm-1
	. 1117-70,000,1111,000,000,1111

Table 7

	lio
III-48	¹ HNMR(CDCl ₃) δ 1.14(t, J=6.9Hz, 3H), 1.46(t,J=6.9Hz, 3H), 3.58(q,J=6.9Hz, 2H), 3.58(q,J=6.9Hz, 2H), 6.19(s,1H), 6.86·6.92 (m,2H), 7.43-7.49(m,2H) [6.41(s,1H), 6.86·6.92 (m,2H), 7.43-7.49(m,2H)]
111-49	¹ HNMR(CDCl ₃) & 0.02(s,6H),0.12(s,6H),0.90(s,9H),0.93(s,9H),4.54(s,2H),4.76(s,2H),6.84-6.89(m,2H),7.16-7.22(m,2H),7.37(s,1H),7.69(s,1H)
111-50	mp173-175°C 'HNMR(CDCl ₃) & 3.21(s,3H),3.47(s,3H),3.89(s,3H),6.15(s,1H),6.42(s,1H),7.24-7.37(m,2H),7.61-7.66(m,2H) IR(KBr)3408-2934-1604-1480-1360-1146-1060-1004-007-200-200-200-2004-200-2004-200-2004-200-200
111.51	mp156-158°C "HNMR(CDCl ₃) & 3.21(s, 3H), 3.39(s, 3H), 6.05(s, 1H), 7.36-7.44(m, 4H) IR(KBr)3410.2938, 1505, 1457, 1413, 1337, 1104, 1142, 1004, 1014, 1004, 101
111.52	mp181-183℃ 'HNMR(CDCl ₃) δ 3.19(s, 3H), 3.88(s, 3H), 4.21-4.24(m, 2H), 4.39-4.42(m, 2H), 6.49(s, 1H), 7.45(ABq, J=8.7Hz, 4H)
III-53	mp155-157°C 'HNMR(CDCl ₃) & -0.11-0.02(m,2H),0.33-0.44(m,2H), 0.91(m,1H), 3.20(s,3H), 3.41(d,J=7.0Hz,2H), 3.50(s,3H),3.92(s,3H), 6.88 [s, 1H), 7.51(ABq,J=8.6Hz,4H) IR(KBr)3434 1505 1479 1416 1386 1271 1357 1357 1357 1357 1357 1357 1357 13
III-54	mp105-107°C 'HNMR(CDCl ₃) & 3.20(s, 3H), 3.39(s, 3H), 4.77(s, 2H), 6.40(s, 1H), 7.33-7.55(m, 5H) IR(KBr)3411, 1592, 1572, 1507, 1482, 1467, 1437, 1360, 1339, 1939, 1964, 1175, 1146, 1167, 1067, 1
	1.00261125,1148,1125,1092cm.1

Table 8

	mp138-140°C
III-55	¹ HNMR(CDCl ₃) δ 1.14(t,J=7.0Hz,3H), 3.59(q,J=7.0Hz,2H), 3.88(s,3H), 4.97(bs,1H), 6.42(s,1H), 6.86-6.94(m,2H), 7.43-7.51 (m,2H)
	IR(KBr)3384,3291,2978,1614,1593,1576,1519,1484,1469,1455,1436,1417,1366,1306,1285,1257,1203,1171,1127,1094,1029c
111.56	mp162-164C
B	IR(CHCl ₃)1594,1561,1507,1478
	mp95.97°C
111.57	¹ HNMR(CDCl ₃) δ 2.35(s,3H),3.77(s,3H),6.84-6.87(m,2H),7.12(s,1H),7.13(s,1H),7.35,7.38(, 9.1)
	IR(CHCl3)3596,2959,2939,2840,1611,1563,1517,1489,1464,1438,1367,1399,1995,1955,1177,1689,1464,1438,1384,1367,1399,1995,1973,1973,1973,1973,1973,1973,1973,1973
	891,835cm ⁻¹
	mp173.175°C
111-58	¹ HNMR(CDCl ₃) δ 6.91-6.94(m,2H),7.31-7.34(m,2H),7.87(s,1H),8.09(s,1H),9.89(s,1H),10.98(s,1H)
	IR(CHCl ₃)3437,1685,1610,1516,1456,1394,1370,1270,1261,1238,1214,1173,1144,1052,1019,002,002,002
	mp173-175°C
III-59	"HNMR(CDCl ₃) & 1.10(t,J=6.9Hz,3H), 1.48(t,J=6.9Hz,3H), 3.20(s.3H), 3.47(s.9H), 9.62(s.1,0.0)
•	6.79 (s, 1H), 7.32-7.39(m,2H), 7.60-7.66(m,2H)
	IR(CHCl ₃)1502,1458,1372,1176,1148,1074,1023.967.870cm ⁻¹
111-60	1HNMR(CDCl ₃) & 2.17(s,3H),2.39(s,3H),3.19(s,3H) 5.80% 1H) 6.71% 1H) 7.3%
	(3,111), (33(8,4H))

Table 9

19-111	¹ HNMR(CDCl ₃) & 3.21(s,3H),3.79(s,3H),4.04(s,3H),7.39(d,J=8.9Hz,2H),7.57(d,J=8.9Hz,2H),7.68(s,1H),10.17(s,1H) ¹ R(KBr)1704,1422,1358,1224,1148,1090,1026,974,876,551
	IR(KBr)1704,1422.1358.1224.1148.1090.1096.074.876cm.1
	mp121.122°C
69-111	¹ HNMR(CDCl ₃) § 3.45(s,3H), 3.47(s,3H), 3.93(s,3H), 4.68(s,2H), 4.77(s,2H), 7.22(s,1H), 7.49(d, 1–8.1Hz, 9H), 7.52(1, 1–9.1Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9
	2H), 10.42 (s, 1H)
	IR(KBr)1695,1476,1422,1232,1189,1130,1040,860cm.
	mp113.115℃
III-63	¹ HNMR(CDCl ₃) δ 2.18(s,3H),3.22(s,3H),3.89(s,3H),6.85(s,1H),7.11(s,1H),7.36(s,4H)
	IR(KBr)1497,1413,1354,1230,1146,1097,976,864cm.
III-64	1HNMR(CDCl ₃) & 5.65(s,1H),7.18(s,1H),7.30-7.35(m.2H),7.46-7.50(m.3H)
111.65	1HNMR(CDCl ₃) 6:1.30(d,J=7.2Hz,6H),2.96(quintet,J=7.2Hz,1H) 3 82(s 3H) 3 91(s 3H) 5 930-2 911) 5 910-2 911
-+	Hz,2H),7.44(s,1H),7.49(d,J=8.1Hz,2H)
	mp118-122°C
99-111	'HNMR(CDCl ₃) § 3.80(s,3H),3.91(s,3H),5.88(s,2H),6.84-6.92(m,3H),7.39-7.47(m,3H)
7	IR(KBr)3600-2800(br),1606,1517,1492,1461,1415,1397,1330,1265,1205,1171,1052cm ⁻¹
	mp227-230℃
111.67	¹ HNMR(CDCl ₃) δ 0.25(s,6H), 1.02(s,9H), 2.33(s,3H), 2.82(s,2H), 6.88-6.93(m.2H), 7.16(s,1H), 7.21, 7.25(m.3H), 2.17,
T	IR(KBr)3600-2800(br), 1608, 1514, 1393, 1346, 1267, 1167cm ⁻¹
-	mp134-137°C
1II-68	¹ HNMR(CDCl ₃) δ 3.00(s,6H),3.81(s,3H),3.91(s,3H),6.00(s,2H),6.77-6.82(m.2H) 6.90(s 1H) 7.41(s 1H) 7.46 7.51(m.2H)
	IR(KBr)3600-2800(br), 1601, 1528, 1494, 1466, 1439, 1399, 1362, 1321, 1198, 1166, 1118, 1051cm ⁻¹

Table 10

	mp144-148°C
69-111	1HNMR(CDCl ₃) & 2.38(s,3H),2.82(s,3H),3.01(s,6H),7.79-7.83(m,2H),7.18(s,1H).7.27-7.31(m,2H) & 11(s,1H)
	IR(KBr)3600-2800(br), 1612, 1523, 1443, 1389, 1328, 1271, 1160cm.
	mp122-126°C
111.70	1HNMR(CDCl ₃) & 0.10(s,9H), 0.78(s,6H), 2.96(s,6H), 3.75(s,3H), 3.84(s,3H), 6.08(s,2H), 6.72.6.78(m,9H), 7.01(s,1H), 7.99
:	7.29 (m, 2H)
	1R(KBr)3600-2800(br), 1613, 1528, 1463, 1416, 1402, 1345, 1951, 1918, 1105, 1963, 1964, 19
111 71	1HNMR(CDCl ₃) § 2.21(s,3H),2.37(s,3H),3.89(s,3H),5.19(s,2H),6.75(d.d.]=8.4&2.1H ₂ .1H) § 81(3.1-2.1H) = 1.1H ₂ .1H ₂ .1H ₃ .1
	1H),7.08(s,1H),7.30-7.50(m,6H)
_	lio
111.79	1HNMR(CDCl ₃) & 2.51(s,6H), 2.75(s,6H), 5.15(s,2H), 5.67(s,1H), 6.94(s,1H), 6.96(d,1=8.4H ² ,1H), 7.04(d,1=0.1,0.4H ² ,1H)
	7.18 (s, 1H), 7.20(d,J=2.1Hz,1H), 7.37-7.47(m,5H)
	IR(CHCl ₃)3032,3428,3000-2800(br),1730,1611,1525,1489,1455,1256,1171,1137,1100,1035
111.73	1HNMR(CDCl ₃) & 2.21(s,3H),2.37(s,3H),5.15(s,2H),5.69(br,1H),6.73(dd,J=8.4.1.8Hz,1H),6.89,6.99(r, 9H),7.07(z,1H),7.07(z,1H)
01-111	6(m,6H)
_	¹ HNMR(CDCl ₃) & 1.09(t,J=7.2Hz,3H), 1.22(t,J=7.5Hz,3H), 2.55(a,J=7.2Hz,2H) 2.72(a,J=7.5Hz,9H) & 1.72(t,J=7.2Hz,3H)
111-74	6.73 (dd, J=8.4,1.8Hz,1H), 6.89(d,J=1.8Hz,1H),6.95(d,J=8.4Hz,1H),7.04(8,1H), 7.38-7.47(m,ett)
	IR(CHCl ₃)3542,2970,2933,1586,1508,1480,1384,1394,1900,1160,1167,1621,1631,1631,1631,1631,1631,1631,1631
36 111	¹ HNMR(CDCl ₃) δ 2.04(8,3H),3.70(8,3H),3.90(8,3H) 5 19(8,2H) 5 50(m, 1H) 6.79(44, 1011, 111), 2.72 2.72 2.72 2.72 2.72 2.72 2.72 2.7
C/ -TTT	,5H)

Table 11

_	
111-76	
	IR(CHCl ₃)3529,2963,2940,1731,1587,1566,1510,1480,1455,1412,1382,1323,1290,1248,1128,1099,1009,935,879cm $^{-1}$ mp87-89 $^{\circ}$ C
111.77	¹ HNMR(CDCl ₃) & 2.20(s,3H),2.37(s,3H),5.18(s,2H),6.90-7.10(m,4H),730-7.51(m,6H)
111.78	HNMR(CDCl ₃) & 1.25(d,J=6.9Hz,6H), 2.24(s,3H), 3.26(sept,J=6.9Hz,1H), 5.20(s,2H), 6.95(ddd,J=8.3,2.2,1.2Hz,1H), 7.06 (t, 18.71,00, 1400, 1400, 1400, 1500, 200, 200, 200, 200, 200, 200, 200,
111.79	"HNMR(CDCl ₃) & 2.43(s,3H),5.19(s,2H),7.06(t,J=8.9Hz,1H),7.18-7.48(m,10H)
111-80	mp77.79°C HNMR(CDCl ₃) & 3.921(s,3H),5.21(s,2H),6.90.6 99(m, 3H) 7.51.7.50.
	IR(KBr)3600-2800(br),1518,1477,1418,1237,1212,1167,1140cm ⁻¹ mp103-105°C
111.81	¹ HNMR(CDCl ₃) § 2.16(s,3H),2.37(s,3H),2.42(s,3H),3.16(m,3H),5.21(s,2H),7.16-7.17(m,3H),7.24-7.27(m,1H),7.36-7.48(m,5H)
111.82	¹ HNMR(CDCl ₃) δ 2.19(s, 3H), 3.88(s, 3H), 5.20(s, 2H), 6.84(s, 1H), 6.95(m, 1H), 7.03-7.05(m, 3H), 7.35-7.49(m, 5H)
III-83	¹ HNMR(CDCl ₃) § 2.19(s,3H), 3.88(s,3H), 3.91(s,3H), 5.21(s,3H), 6.76(dd,J=8.4,2.1Hz,1H), 6.82(d,J=2.1Hz,1H), 6.87(s,1H), 6.87(s,1H), 7.32-7.50(m,5H)

Table 12

III-84	III-84 HNMR(CDCl ₃) & 1.44(d,J=6.9Hz,3H),2.19(s,3H),4.09(a,J=6.9Hz,2H) 5.90% 9H3 6.90% 9H3 6.90%
	IR(CHCl ₃)3597.2928.1731 1609 1593 1404 1475 1605 1505 1505 1505 1505 1505 1505 150
111.95	HNMD/ODG () 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
CO.TIT	111-00 11101011(CDCl3) 0 2.26(s,3H),2.52(s,3H),3.90(s,3H),4.59(brs.2H),5.20(s.2H),6.73.7.10(m,4U),7.87.50
98-III	1HNMR(CDCl3) & 2 33/s 3H) 9 81/s 2H) 4 60/s 61/s 5H)
	(3,211), 2.01(s,311), 4.00(0rs, 2H), 5.20(s,2H), 6.92-7.18(m,4H), 7.30-7.52(m,6H)

Table 13

	m.p.155.5-156°C
	¹ HNMR(acetone-d ₆) δ 1.77(brs,3H),1.79(brs,3H),3.37(s,3H),3.73(s,3H),4.63(brd,J=6.6Hz,2H),5.52(m.1H),6.49(1H _s),6.83(A
	d,J=2.2and8.2Hz,1H),6.92(d,J=2.2Hz,1H),6.94(m,2H),6.96(d,J=8.2Hz,1H),7.54(m,2H),7.62(brs,1H),7.78(s,1H),8.64(brs,1H) IR(KBr)3393,2932,1611,1588,1522,1490,1117,1071,1071,1071,1071,1071,1071,10
	1HNMR(CDCl ₃) & 2.67(s,3H),3.13(s,3H),3.21(s,3H),3.56(s,3H) 3.78(s,3H) 5.19(s,9H) 5.04(s,11) 7.12(s,3H)
1.2	50(m,9H),7.60-7.75(m,2H)
	IR(KBr)1373,1361,1179,1149,1079,874,799cm ⁻¹
	m.p.155-157°C
6.	1HNMR(CDCl ₃) & 1.76(s, 3H), 1.81(s, 3H), 2.71(s, 3H), 3.21(s, 3H), 3.84(s, 3H), 3.56(s, 3H), 3.52(s, 3H)
2	55(m,1H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.30-7.42(m,4H),7.65-7.75(m,2H)
	HNMB/ODGIAS and
I-4	11111111(CDC13) 0 3.45(8,3H),3.75(8,3H),5.16(8,2H),6.44(8,1H),6.92-7.19(m,5H),7.34-7.44(m,5H),7.57-7 66(m, 2H)
	IR(KBr)3538,3510,3460,3330,1605,1521,1490,1455,1247.1220,1120,1070,1010,1
	m.p.136-138°C
7.	1HNMR(CDCl ₃) & 2.68(s,3H),3.13(s,3H),3.55(s,3H),3.80(s,3H) 5,19(s,2H) 6,86(c,1H) 7,10(1,1,1) 7,10(1,1)
2	55-7.69(m,2H),7.82-7.87(m,2H)
	IR(KBr)3433,2937,1609,1519,1474,1463,1364,1322,1295,1274,1935,1183,1167,1183,1167,1183,1167,1183,1167,1183,1183,1183,1183,1184,1183,1183,1183
	foam
9.	1HNMR(CDCl ₃) & 1.77(s,3H),1.81(s,3H),2.72(s,3H),3.24(s,3H),3.49(s,3H),3.80(c,3H),4.00(s,1H)
·	1H),7.10(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.39(d.,J=2.1,8.7Hz,1H),7.39(d.,J=2.1,8.7Hz,1H),6.86(e,
	IR(CHCl ₃)3030,1608,1518,1480,1369,1322,1269,1230,1179,1131,1130,1007,1001,1001,001,101,101,101,101,101
	, 1081,1015,1150,1031,1015,116m

Table 14

HNMR(CDCl ₃) 6 1.76(s,3H), 1.82(s,3H), 3.76(s,3H), 3.77(s,3H), 4.62(d,J=6.9Hz,2H), 5.31(m,1H), 5.71(s,1H), 5.85(s,1H), 6.47(s,1H), 6.93(d,J=1.8.8.7Hz,1H), 6.97(d,J=8.7Hz,1H), 7.05(d,J=1.8Hz,1H), 7.55-7.65(m,2H), 7.83-7.91(m,2H), 1.05(d,J=8.7Hz,1H), 6.97(d,J=8.7Hz,1H), 7.05(d,J=1.8Hz,1H), 7.55-7.65(m,2H), 7.83-7.91(m,2H), 1.05(d,J=8.7Hz,1H), 6.93(s,1H), 7.01(d,J=8.7Hz,2H), 7.32-7.48(m,9H), 7.33(d,J=0.0Hz,2H), 1.00(c); 0. 3.22(s,3H), 3.45(s,3H), 3.74(s,2H), 5.15(s,2H), 6.93(s,1H), 7.01(d,J=8.7Hz,2H), 7.32-7.48(m,9H), 7.33(d,J=0.0Hz,2H), 1.02(c); 0. 1.03(t,J=7.2Hz,3H), 2.16(d,J=7.2E,0.Hz,2H), 3.74(s,3H), 3.74(s,3H), 3.74(s,3H), 3.74(s,3H), 3.74(s,3H), 3.74(s,3H), 3.74(s,3H), 3.73(s,3H), 3.73(s,3H), 3.74(s,3H), 3.74(s,3H), 3.73(s,3H), 3.73(s,3H), 3.73(s,3H), 4.49(brs,2H), 6.46(s,J=5.4Hz,2H), 5.46(s,J=5.1Hz,1H), 7.27(s,J=5.1Hz,1H), 7.35-7.49(m,RH), 7.70(m,2H), 1.12(s,J=5.1Hz,1H), 7.35-7.49(m,RH), 7.70(m,2H), 1.12(s,J=5.1Hz,1H), 7.35-7.49(m,RH), 7.70(m,RH), 1.12(s,J=5.1Hz,1H), 7.35-7.49(m,RH), 7.70(m,RH), 1.12(s,J=5.1Hz,1H), 7.35-7.49(m,RH), 7.70(m,RH), 1.12(s,J=5.1Hz,1H), 7.36-7.741(m,RH,1H), 7.36-7.73(m,RH,1H),		m.p.92-94°C
	I-7	¹ HNMR(CDCl ₃) & 1.76(s,3H),1.82(s,3H),3.46(s,3H),3.77(s,3H),4.62(d,J=6.9Hz,2H),5.31(m,1H),5.71(s,1H),5.85(s,1H),6.47(s,1H),6.93(dd,J=1.8,8.7Hz,1H),6.97(d,J=8.7Hz,1H),7.05(d,J=1.8Hz,1H),7.55-7.65(m,2H),7.83-7.91(m,2H).
	8-1	,1324,1245,1216,1155,1125,1073cm ,2H),6.93(s,1H),7.01(d,J=8.7Hz,2H)
m.p.174-175°C 1HNMR(CDCl ₃) δ 3.11(s,3H),3 dd,J=8.4Hz,J=2.1Hz,1H),7.35-7 IR(KBr)1519,1467,1360,1346,1 cm ⁻¹ 1HNMR(CDCl ₃) δ 1.77(s,3H),1,6.85(s,1H),7.08(d,J=8.7Hz,1H) IR(KBr)3553,3434,1516,1472,1 1HNMR(DMSO-d ₆) δ 1.72(s,3H) 5.40-5.57(m,1H),6.64(dd,J=8.2,71R(KBr)3435,1518,1475,1459,1	I.9	"HNMR(CDCl ₃) \$\delta\$ 1.03(t,J=7.2Hz,3H),2.16(dq,J=7.2,6.0Hz,2H),3.46(s,3H),3.74(s,3H),4.68(d,J=5.4Hz,2H),5.70(m,2H),6.91(d,J=8.7Hz,2H),6.96(brs,2H),7.07(brs,1H),7.53(d,J=8.7Hz,2H)
	1.10	m.p.174-175 C "HNMR(CDCl ₃) 6 3.11(s,3H),3.21(s,3H),3.45(s,3H),3.73(s,3H),4.49(brs,2H),5.18(s,2H),6.85(s,1H),7.15(d,J=8.4Hz,1H),7.27(dd,J=8.4Hz,J=2.1Hz,1H),7.35-7.49(m,8H),7.70(m,2H) IR(KBr)1519,1467,1360,1346,1331,1295,1272,1229,1180,1151,1122,1101,1081,1022,980,971,954,875,849,814,798,742,525 cm ⁻¹
	1.11	¹ HNMR(CDCl ₃) & 1.77(s,3H),1.82(s,3H),3.22(s,6H),3.45(s,3H),3.74(s,3H),4.49(brs,2H),4.64(d,J=7.2Hz,2H),5.45-5.55(m,1H),6.85(s,1H),7.08(d,J=8.7Hz,1H),7.26(dd,J=8.7and2.1Hz,1H),7.33(d,J=2.1Hz,1H),7.36-7.41(m,2H),7.65-7.75(m,2H)
	J.12	1HNMR(DMSO-d ₆) & 1.72(s,3H), 1.77(s,3H),3.35(s,3H),4.20(brs,2H),4.47(brt,J=4.4Hz,1H),4.55(brd,J=6.6Hz,2H), 5.40-5.57(m,1H),6.64(dd,J=8.2,2.0Hz,1H),6.70(d,J=2.0Hz,1H),6.75-7.00(m,4H),7.40-7.55(m,2H) IR(KBr)3435,1518,1475,1459,1261,1223,988cm-1

Table 15

1.13	1HNMR(CDCl ₃) & 2.71(s,3H),2.84(s,3H),3.20(s,3H),3.42(s,3H),3.76(s,3H) 5 13(s,9H) 5 67(s,1H) 6 60(s,1H) 5 60 5 60 5 60 5 60 5 60 5 60 5 60 5 6
	7.00(m, J=1.8Hz, 1H), 7.32-7.50(m, 7H), 7.70(d, J=9.0Hz, 2H)
	m.p.140.141°C
1.14	1HNMR(CDCl ₃) δ 2.71(s,3H),2.83(s,3H),3.15(s,3H),3.21(s,3H),3.42(s,3H),3.77(s,3H) 5.16(s,9H) 6.90(c,1H) 7.90(c,1H)
F1 -1	2H),7.30-7.50(m,9H),7.70(d,J=8.9Hz,2H)
	IR(KBr)1642,1516,1467,1362,1180,1151,1118,1050,867,803,708cm-1
	m.p.161-162°C
1.15	1HNMR(CDCl ₃) & 1.76(s,3H),1.81(s,3H),2.72(s,3H),2.85(s,3H),3.21(s,3H),3.23(s,3H),3.49(s,3H),3.77(s,2H), 4.77(s,2H)
	2H),5.49(t,J=6.6Hz,1H),6.90(S,1H),7.02(d,J=8.1Hz,1H),7.31-7.37(m.2H),7.38(d,J=8.0Hz,9H),7.02(d,J=6.0Hz,1H),7.31-7.37(m.2H),7.38(d,J=8.0Hz,9H),7.02(d,J=6.0Hz,1H),7.31-7.37(m.2H),7.31-7.38(d,J=8.0Hz,9H),7.31-7.31(m.2H),7.31(m.2H),7.3
	IR(KBr)1643,1516,1467,1362,1277,1236,1180,1150.974.882.868.847.802.710, cm - 1
	m.p.206-207°C
	1HNMR(CDCl ₃) & 1.71(s,3H),1.76(s,3H),2.62(s,3H),2.69(s,3H),3.27(s,3H),3.71(s,3H),4.53(d,1-6.8H; 2H), 2.42(s,1-5.42(s,1
I-16),6.61(dd,J=8.3and2.1Hz,1H),6.71(d,J=2.1Hz,1H),6.86(d,J=8.7Hz,2H),6.87Hz,2H),6.84z,1H
	.83(brs,1H),9.59(brs,1H)
	IR(KBr)3427,3020,1608,1517,1467,1379,1233,1053,1005.839.799.759.543cm-1
	m.p.171:172°C
1.17	1HNMR(DMSO.de) & 1.74(d,J=0.9Hz,3H),1.77(s,3H),2.97(s,3H),3.45(s,3H),3.51(s,3H),3.77(s,3H),4.551,1.5.21
•	m,1H),7.06-7.27(m,4H),7.48&7.74(ABq,J=9.0Hz,4H)
	$IR(KBr)1523,1483,1394,1366,1271,1175,1151,1087,1071,872.861.847.796cm^{-1}$
	1HNMR(CDCl ₃) § 1.76(s,3H),1.80(s,3H),3.44(s,3H),3.76(s,3H),4.63(d,J=6.6Hz,2H) 4 99(s,1H) 5 48 5 69(-111) 5 00(-111) 5
I-18	45(s,1H),6.88-6.97(m,2H),7.04(dd,J=9.0,9.0Hz,1H),7.15-7.29(m,2H),7.45-7.60(m,2H)
	IR(KBr)3393,1523,1490,1466,1403,1267,1229,1113,1070cm ⁻¹

Table 16

	"HNM I&(CDCla) & 2.56(s.3H) 3.21(s.3H) 3.59(s.3H) 9.60(s.5H) 9.60(s.5H)
1-19	.4Hz,1H),7.05(d.J=2.0Hz,1H),7.35,7.751(m,710,750,750,750,750,750,750,750,750,750,75
1.90	1HNMR(CDCl ₃) & 2.69(s, 3H), 3.14(s, 3H), 3.21(s, 3H), 3.53(s, 3H), 3.71(s, 3H), 5.90(s, 9H), 5.90(s, 9H), 7.10(s, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1
07-1	59(d, J=8.7Hz, 2H)
	m.p.94-95°C
1.91	1HNMR(CDCl ₃) & 2.73(s,3H),3.21(s,3H),3.24(s,3H),3.53(s,3H),3.71(s,3H),4.65(d, 1=6.0Hz, 9H), e.e., 1=6.0Hz, 9H)
i i	8.6Hz, 1H), 7.36(dd, J=8.6and2.1Hz, 1H), 7.41(d, J=2.1Hz, 2H), 7.41(d, J=8.8Hz, 2H), 7.59(d, J=8.8Hz, 2H)
	1K(KBr)1516,1367,1180,1152,1039,975,869,799cm ⁻¹
	m.p.148-150°C
1.99	1HNMR(CDCl ₃) & 3.42(s,3H),3.65(s,3H),4.63(d,J=6.9Hz.2H),4.98(brs 1H) 5.53(t 1-6.9Hz, 1H) 6.6.6.6.7
	.43(d,J=8.6Hz,2H)
	IR(KBr)3398, 1612, 1587, 1523, 1462, 1410, 1261. 1211. 1099. 1036. 984. 959. 919. 928. 9151
1 93	¹ HNMR(CDCl ₃) & 2.28(t,J=6.3Hz,1H),2.60(8.3H),3.21(8.3H) 3.55(8.3H), 2.77(8.3H)
1.20),7.06(d,J=9.0Hz,1H),7.29-7.48(m,9H),7.69(d,J=8.7Hz,9H),7.48(m,9H),7.69(d,J=8.3Hz,ZH),6.84(s,1H)
	"HNMR(CDCl ₃) § 1.76(9,3H), 1.81(8,3H), 2.26(8,3H), 2.50(8,3H), 3.21(9.3H), 3.56(9.3H), 9.77(9.91), 4.77(7.71)
I.24	=6.2Hz,1H),6.83(s,1H),6.92(d,J=9.0Hz,1H),7.17-7.29(m.2H) 7.36(d,J=8.7Hz,9H) 7.70(d,J=6.2Hz,2H),5.51(t,J
	IR(KBr)3434,1608,1512,1479,1364,1234,1175,1150,1078,1017cm ⁻¹
	1HNMR(CDCl3) & 1.75(s,3H),1.80(s,3H),2.27(s,3H),3.46(s,3H),4.57(d,3H),4.57(d,3H,9H),4.67(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H,9H),4.65(d,3H),4
I.25),5.86(s,1H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.92(d,J=9.0Hz,1H),7.24(d,J=9.0Hz,1H),7.96(z,1H),6.92(d,J=8.7Hz,2H)
	IR(KBr)3399,1612,1566,1581,1520,1486,1237,1115,1078,1001cm ⁻¹

Table 17

	m.p.246-247°C
1-26	¹ HNMR(DMSO-d ₆) & 5.16(s,3H),6.84-6.87(m,2H),7.05(s,2H),7.14(s,1H),7.32-7.43(m,3H),7.49-7.64(m,8H)
1.27	HNMR(DMSO-d ₆) δ 3.38(s,3H),3.43(s,3H),5.28(s,2H),7.36-7.54(m,8H),7.69-7.86(m,8H)
	m.p.162-163°C
1.28	¹ HNMR(CDCl ₃) <i>\(\delta\)</i> 1.77(s,3H),1.82(s,3H),3.19(s,3H),3.23(s,3H),4.64(d,J=6.6Hz,2H),5.25-5.48(m,1H),7.09(d,J=9.0Hz,1H),7.3 6-7.40(m,2H),7.52(dd,J=2.4,9.0Hz,1H),7.59(d,J=2.4Hz,1H),7.62(s,4H),7.63-7.69(m,2H)
	m.p.195°C
I-29	¹ HNMR(DMSO-d ₆) δ 1.72(s,3H),1.75(s,3H),4.57(d,J=6.3Hz,2H),5.45-5.50(m,1H),6.84-6.87(m,2H),6.98-7.11(m,3H),7.50-7.6 4(m,6H)
	IR(KBr)3600-3200(br),1609,1594,1497,1257,991cm ⁻¹
	m.p.145-148°C
I-30	¹ HNMR(CDCl ₃) δ 1.60-2.20(m,6H),2.72(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.92(m,1H),5.88(m,1H),6.02(m,1 H),6.84(s,1H),7.12(d,J=8.6Hz,1H),7.34-7.40(m,4H),7.69(m,2H) IR(KBr)1517 1481 1300 1303 1303 1303 1303 1303 1303
	m.p.108-110°C
I-31	¹ HNMR(CDCl ₃) δ 1.60-2.20(m,6H),3.46(s,3H),3.75(s,3H),4.86(m,1H),5.02(bs,1H),5.75(s,1H),5.90(m,1H),5.91(s,1H),6.00(m,
	1R (KBr)3485,1614,1523,1491,1457,1407,1312,1287,1269,1238,1195,1170,1115,1072,1014cm ⁻¹

Table 18

	m.p.188·190°C
1.32	'HNMR(CDCl ₃) & 2.69(s,3H),3.21(s,3H),3.26(s,3H),3.56(s,3H),3.78(s,3H),4.84(m,2H),6.42(dt,J=15.6Hz,J=5.7Hz,1H),6.79(d ,J=15.6Hz,1H),6.84(s,1H),7.15(d,J=8.4Hz,1H),7.28.7.43(m,9H),7.68(m,2H) IR(KBr)1519,1477,1391,1360,1301,1273,1241,1228,1201,1175,1152,1120,1079,1014,974,959,947,868,819,795,777,74
1.33	m.p.157-159°C !HNMR(CDC!3) & 3.46(s,3H),3.75(s,3H),4.81(m,2H),4.93(bs,1H),5.70(s,1H),5.91(s,1H),6.45(s,1H),6.46(dt,J=15.9Hz,J=6.0H z,1H),6.76(d,J=15.9Hz,1H),6.90-7.09(m,5H),7.26-7.46(m,5H),7.54(m,2H) 1R(KBr)3466,1611,1522,1489,1461,984,1946,1102,102,102
	m.p.127.129°C
I-34	¹ HNMR(CDCl ₃) δ 1.03and 1.04(botht, bothJ=8.0Hz, total3H), 2.07-2.19(m,2H), 2.71and2.72(boths, total3H), 3.21(s,3H), 3.24(s,3H), 3.56(s,3H), 3.78(s,3H), 4.60and4.71(bothm, total2H), 5.66-5.75and5.90-5.99(bothm, total2H), 6.84(s,1H), 7.09(d,J=8.4Hz, 1H), 7.33-7.41(m,4H), 7.68(m,2H)
	$(3.752.5, 1.52, 1.522, 1.150, 1.150, 1.077, 974, 873, 815, 799, 522 cm^{-1}$ m.p.166-168 $\mathbb C$
I-35	¹ HNMR(CDCl ₃) & 1.04and1.05(botht,bothJ=7.5Hz,total3H),2.09-2.19(m,2H),3.46(s,3H),3.74(s,3H),4.58and4.68(bothm,total2H),5.01(bs,1H),5.69-5.78and5.87-5.95(bothm,total4H),6.45(s,1H),6.90-7.06(m,5H),7.53(m,2H)
	m.p.148-150 C
1.36	¹ HNMR(CDCl ₃) δ 1.62(s,3H), 1.69(s,3H), 1.76(s,3H), 2.08-2.20(m,4H), 2.71(s,3H), 3.21(s,3H), 3.24(s,3H), 3.56(s,3H), 3.78(s,3H), 4.66(d,J=6.3Hz,2H), 5.09(m,1H), 5.50(t,J=6.3Hz,1H), 6.84(s,1H), 7.10(d,J=8.4Hz,1H), 7.33-7.41(m,4H), 7.68(m,2H) IR(KBr)1519, 1480, 1464, 1449, 1389, 1366, 1291, 1271, 1233, 1200, 1176, 1118, 1079, 1012, 973, 946, 876, 841, 816, 801, 523, 51

Table 19

	1.37	'HNMR(CDCl ₃) δ 1.58(s,3H), 1.63(s,3H), 1.70(s,3H), 2.05-2.20(m,4H), 3.46(s,3H), 3.75(s,3H), 4.64(d,J=6.3Hz,2H), 4.95(bs.1H)
		5.11(m,1H),5.53(m,1H),5.70(s,1H),5.90(s,1H),6.45(s,1H),6.91-7.08(m,5H),7.54(m,2H)
		m.p.149.151°C
	1.38	¹ HNMR(CDCl ₃) δ 1.68(s,3H),1.74(s,3H),2.55(m,2H),2.73(s,3H),3.21(s,3H),3.22(s,3H),3.56(s,3H),3.77(s,3H) 4 07(t, 1=6 8H ₇
IR(KBr)1520,1483,1389,1363, m.p.105-107°C 1HNMR(CDCl ₃) 6 1.68(s,3H),1 s,1H),5.90(s,1H),6.45(s,1H),6.9 IR(KBr)3477,3388,1523,1489, m.p.155-157°C 1HNMR(CDCl ₃) 6 1.89(t,J=2.4 H),6.90-7.08(m,5H),7.54(m,2H) IR(KBr)3446,2224,1523,1488,1 IR(KBr)3446,2224,1523,1488,1 IR(KBr)3446,2224,1523,1488,1 IR(KBr)3446,2224,1523,1488,1 IR(KBr)3446,2224,1523,1488,1 IHNMR(CDCl ₃) 6 2.19(s,3H),3 oil 1HNMR(CDCl ₃) 6 1.76(s,3H),1 IHNMR(CDCl ₃) 6 1.76(s,3H),1	3	2H),5.21(m,1H),6.84(s,1H),7.08(d,J=8.2Hz,1H),7.32-7.40(m,4H),7.68(m,2H)
m.p.105-107°C 1HNMR(CDCl ₃) & 1.68(s,3H),1 s,1H),5.90(s,1H),6.45(s,1H),6.9 IR(KBr)3477,3388,1523,1489,1 m.p.155-157°C 1HNMR(CDCl ₃) & 1.89(t,J=2.4 H),6.90-7.08(m,5H),7.54(m,2H) IR(KBr)3446,2224,1523,1488,1 1HNMR(CDCl ₃) & 2.19(s,3H),2 6.91-7.08(m,5H),7.53(m,2H) oil 1HNMR(CDCl ₃) & 1.76(s,3H),1 iHNMR(CDCl ₃) & 1.76(s,3H),1		IR(KBr)1520,1483,1389,1363,1296,1180,1151,1079,975,815,799,521cm ⁻¹
1HNMR(CDCl ₃) & 1.68(s,3H),1 s,1H),5.90(s,1H),6.45(s,1H),6.9 IR(KBr)3477,3388,1523,1489,1 m.p.155-157°C 1HNMR(CDCl ₃) & 1.89(t,J=2.4 H),6.90-7.08(m,5H),7.54(m,2H) IR(KBr)3446,2224,1523,1488,1 1HNMR(CDCl ₃) & 2.19(s,3H),3 6.91-7.08(m,5H),7.53(m,2H) oil 1HNMR(CDCl ₃) & 1.76(s,3H),1 1HNMR(CDCl ₃) & 1.76(s,3H),1		m.p.105-107°C
s,1H),5.90(s,1H),6.45(s,1H),6.9 IR(KBr)3477,3388,1523,1489, 1 m.p.155-157°C 'HNMR(CDCl ₃) & 1.89(t,J=2.4 H),6.90-7.08(m,5H),7.54(m,2H) IR(KBr)3446,2224,1523,1488, 1 'HNMR(CDCl ₃) & 2.19(s,3H),3 6.91-7.08(m,5H),7.53(m,2H) oil 'HNMR(CDCl ₃) & 1.76(s,3H),1 IH),7.37-7.41(m,3H),7 6.1(d, 1=-	1 30	¹ HNMR(CDCl ₃) δ 1.68(s,3H),1.75(s,3H),2.53(m,2H),3.54(s,3H),3.74(s,3H),4.06(t,J=6.8Hz,2H) 5.01(hs,1H) 5.92(m,1H) 5.69(
	CO-1	s,1H),5.90(s,1H),6.45(s,1H),6.90-7.06(m,5H),7.53(m,2H)
		IR(KBr)3477,3388,1523,1489,1469,1402,1285,1261,1248,1227,1196,1175,1164,1115,1100,1073,1011cm-1
	T-40	1HNMR(CDCl ₃) δ 1.89(t,J=2.4Hz,3H),3.45(s,3H),3.75(s,3H),4.74(q,J=2.4Hz,2H),5.00(bs.1H),5.66(s.1H) 5.92(s.1H) 6.45(s.1H)
	05.1	H),6.90-7.08(m,5H),7.54(m,2H)
		IR(KBr)3446,2224,1523,1488,1402,1266,1238,1203,1187,1166,1102,1068,1009cm ⁻¹
	1.41	1HNMR(CDCl ₃) δ 2.19(s,3H),3.45(s,3H),3.75(s,3H),4.62(m,2H),4.92(bs,1H),5.60(bs,1H),5.92(s,1H),5.99(m,1H),6.45(m,1H)
oil ¹ HNMR(CDCl ₃) δ 1.76(s,3H),1 1H),7.37-7.41(m.3H) 7 61(d.1=		6.91.7.08(m,5H),7.53(m,2H)
¹ HNMR(CDCl ₃) δ 1.76(s,3H),1 1H),7.37-7.41(m.3H) 7 61(d.1Ξ		lio
1H).7.37.7.41(m.3H) 7 61(d.1=9 1H, 1H) 7 67(m.9H)	I-42	
		1H),7.37-7.41(m,3H),7.61(d,J=2.1Hz,1H),7.67(m,9H)

Table 20

	m.p.132-136°C
 	1HNMR(CDCl ₃) & 1.74(s,3H),1.82(s,3H),3.44(s,3H),3.76(s,3H),4.62(m,2H),5.05(brs.1H),5.61(m,1H),5.79(s,1H),6.09(c,1H),c
<u> </u>	44(s, 1H), 6.92(m, 2H), 7.04(d, J=2.1Hz, 1H), 7.20(d, J=2.1Hz, 1H), 7.53(m, 2H)
	JIR(KBr)3495,3422,1611,1520,1473,1400,1355,1315,1280,1227,1194,1173,1111,1077,1092,1
	m.p.148-149°C
1.44	1HNMR(CDCl ₃) & 1.60(s, 3H), 1.70(s, 3H), 2.32-2.39(m, 2H), 2.65(s, 3H), 2.76-9, 81(m, 9H), 3.91(c, 9H), 9.64(c, 9H), 6.70(c, 9H)
F	s,3H),5.16-5.21(m,1H),6.85(s,1H),7.30-7.40(m,5H),7.66-7.71(m,2H)
	1. (101) 1. (101, 1.
	m.p.73.75 C
1.45	¹ HNMR(CDCl ₃) & 1.63(s,3H),1.72(s,3H),2.32-2.39(m,2H),2.64-2.70(m,2H),3.46(s,3H),3.74(s,3H),4.89(c,1H),4.65(c,1H),7.65
,	5.31(m,1H),5.92(s,1H),6.45(s,1H),6.89-7.00(m,4H),7.21(d,J=10.5Hz,1H),7.52-7.55(m,2H)
	IR(KBr)3600-3200(br),3100-2800(br),1612,1579,1523,1487,1459,1400,1360,1362,1157,1111,1111111111111111111111111111
1.46	1HNMR(CDCl ₃) & 3.45(s, 3H), 3.75(s, 3H), 4.65(m, 2H), 4.85(s, 1H), 5.33(m, 1H), 5.44(m, 1H), 5.67(s, 1H), 5.67(s, 1H)
OF	45(s, 1H), 6.92(m, 2H), 6.95(m, 2H), 7.08(m, 1H), 7.54(m, 2H)
	1HNMR(acetone-d ₆) δ 3.39(s,3H),3.72(s,3H),5.20(s,2H),6.48(s,1H),6.83/dd.1=9.0Hz, 1-8.4Hz, 1-10.000, 2000,
1.47	$z_{1}H$), $7.04(d, J=8.4Hz, 1H)$, $7.34-7.45(m, 3H)$, $7.52(m, 2H)$, $7.52-7$ 58(m, 9H)
	IR(CHCl ₃)3522,3348,1699,1612,1589,1521,1489,1458,1402,1988,1114,1071,6251
I-48	'HNMR(acetone-d ₆) δ 1.28(t,J=7.2Hz,3H),3.39(s,3H),3.72(s,3H),4.25(q,J=7.2Hz,2H) 4.78(s,9H) 6.46(2,1H) 6.92(3,1H) 6.92(3,1H)
	48.4Hz,1H),6.93(m,2H),6.96(d,J=1.8Hz,1H),6.97(d,J=8.4Hz,1H),7.59/m, 9H,7.59/m, 9H,7.59/m
1 40	1HNMR(acetone-dc) & 1.75(m,3H),3.39(s,3H),3.72(s,3H) 4.56(m,9H) 5.71 5.90(m,111,7.9,7.9)
	=2.0and8.4Hz.1H) 6 93/4 1=9 0Hz 1H/ 6 05/2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	(4.5.20(4.9-2.0112,111),0.33(m,2H),6.95(4,0-8.4Hz,1H),7.52(m,2H)

Table 21

	1.50	"HNMR(acetone-dc) & 1.75(m,3H),3.39(s,3H),4.72(m,2H) 5.73.5.75(m,9H) 6.486, 1H) 6.96, 1H)
	3),6.92-6.95(m,3H),6.97(d,J=7.8Hz,1H),7.52(m,2H)
		1HNMR(acetone-d ₆) δ 1.77(s,3H), 1.79(s,3H), 3.41(s,3H), 3.72(s,3H), 4.66(m, 2H) 5.53(m, 1H) 6.40(5.1H) 5.95(5.1H)
	5	8.1Hz, 1H), 7.10(dd, J=2.1and8.1Hz, 1H), 7.19(d, J=9.1Hz, 1H), 7.95(m, ZH), 7.04(d, J=
	1.59	1HNMR(CDCl ₃) & 2.58(t, J=2.2Hz, 1H), 2.73(s, 3H), 3.22(s, 3H), 3.26(s, 3H), 3.56(s, 3H), 3.78(s, 9H), 4.92(s, 11-5.2Hz, 11-5
	70-1).7.21(d,J=8.4Hz,1H),7.35-7.46(m,4H).7.64-7.74(m,9H)
	1.53	1HNMR(CDCl3) & 3.45(s,3H),3.76(s,3H),4.36(d,J=1.5Hz,1H),4.55(s,2H),4.76(dd,J=1.82,nd),6Hz,1U\
1HNMR(CDCl ₃) δ 1.76(s,3H),1 ,5.72(s,1H),6.84(s,1H),6.88-7.00 1HNMR(CDCl ₃) δ 0.99(d,J=6.5 ,5.65(s,1H),5.90(s,1H),6.45(s,1H) 1HNMR(CDCl ₃) δ 1.34(s,3H),1 34(dd,J=3.6and11.1Hz,1H),6.4(s,1H),7.52(d,J=8.7Hz,2H) 1HNMR(CDCl ₃) δ 2.68(s,3H),3. 7.64(m,2H) 1R(KBr)1607,1520,1481,1373,1 1HNMR(CDCl ₃) δ 1.76(s,3H),1.8 =6.6Hz,1H),5.83(s,1H),7.06-7.20 1R(KBr)1603,1521,1483,1376,13	3	0.9Hz,1H),6.45(s,1H),6.90.6.96(m.2H) 6.96.7 05(m.9H) 7.10 7.10 7.10 7.10 7.10 7.10 7.10 7.10
,5.72(s,1H),6.84(s,1H),6.88-7.00 ¹ HNMR(CDCl ₃) δ 0.99(d,J=6.5 ,5.65(s,1H),5.90(s,1H),6.45(s,1H) ¹ HNMR(CDCl ₃) δ 1.34(s,3H),1 34(dd,J=3.6and11.1Hz,1H),6.4(s,1H),7.52(d,J=8.7Hz,2H). ¹ HNMR(CDCl ₃) δ 2.68(s,3H),3. 7.64(m,2H) ¹ HNMR(CDCl ₃) δ 2.68(s,3H),1. ¹ HNMR(CDCl ₃) δ 1.76(s,3H),1. ¹ HNMR(CDCl ₃) δ 1.76(s,3H),1. =6.6Hz,1H),5.83(s,1H),7.06-7.20 ¹ R(KBr)1603,1521,1483,1376,13	1.54	1HNMR(CDCl ₃) & 1.76(s,3H),1.82(s,3H),2.61(s,3H),3.53(s,3H).3.77(s,3H) 4 6174.1=6 9H, 9U) 5 137
1HNMR(CDCl ₃) & 0.99(d,J=6.5 ,5.65(s,1H),5.90(s,1H),6.45(s,1H) 1HNMR(CDCl ₃) & 1.34(s,3H),1 34(dd,J=3.6and11.1Hz,1H),6.49 ,1H),7.52(d,J=8.7Hz,2H) 1HNMR(CDCl ₃) & 2.68(s,3H),3. 7.64(m,2H) 1R(KBr)1607,1520,1481,1373,1. 1HNMR(CDCl ₃) & 1.76(s,3H),1.8 =6.6Hz,1H),5.83(s,1H),7.06-7.20 1R(KBr)1603,1521,1483,1376,13	5	(3.72(s,1H),6.84(s,1H),6.88.7.00(m,4H),7.00(m,4H),7.00(m,4H),7.00(m,4H)
,5.65(s,1H),5.90(s,1H),6.45(s,1H) 14NMR(CDCl ₃) & 1.34(s,3H),1 34(dd,J=3.6and11.1Hz,1H),6.49 ,1H),7.52(d,J=8.7Hz,2H) 14NMR(CDCl ₃) & 2.68(s,3H),3. 7.64(m,2H) 1R(KBr)1607,1520,1481,1373,1. 14NMR(CDCl ₃) & 1.76(s,3H),1.8 =6.6Hz,1H),5.83(s,1H),7.06-7.20 1R(KBr)1603,1521,1483,1376,18	1.55	1HNMR(CDCl3) & 0.99(d,J=6.5Hz,6H),1.74(q,J=6.5Hz,2H),1.85(m.1H) 3 46(8 3H) 3 75(9 3H) 4 1974 1—6 711 911
¹ HNMR(CDCl ₃) δ 1.34(s,3H),1 34(dd,J=3.6and11.1Hz,1H),6.4s, ,1H),7.52(d,J=8.7Hz,2H) ¹ HNMR(CDCl ₃) δ 2.68(s,3H),3. 7.64(m,2H) ¹ R(KBr)1607,1520,1481,1373,1. ¹ HNMR(CDCl ₃) δ 1.76(s,3H),1.8 =6.6Hz,1H),5.83(s,1H),7.06-7.20	8	,5.65(s,1H),5.90(s,1H),6.45(s,1H),6.92(m.2H) 6.95(m.9H) 7.06(m.1H) 7.54(m.9H) 7.06(m.1H)
34(dd,J=3.6and11.1Hz,1H),6.49 ,1H),7.52(d,J=8.7Hz,2H) 'HNMR(CDCl ₃) & 2.68(s,3H),3. 7.64(m,2H) IR(KBr)1607,1520,1481,1373,1. 'HNMR(CDCl ₃) & 1.76(s,3H),1.3 =6.6Hz,1H),5.83(s,1H),7.06-7.20 IR(KBr)1603,1521,1483,1376,13		1HNMR(CDCl ₃) δ 1.34(s,3H),1.35(s,3H),3.15(dd,J=3.6and6.6Hz 1H) 3.39(s,3H) 2.79% 2U) 1.600,1 1.500
	j9-1	34(dd,J=3.6and11.1Hz,1H),6.49(s,1H),6.83(dd,J=1.8and8.1Hz,1H),6.93(4.1=8.74z,94),6.11)
¹ HNMR(CDCl ₃) δ 2.68(s,3H),3. 7.64(m,2H) IR(KBr)1607,1520,1481,1373,1 ¹ HNMR(CDCl ₃) δ 1.76(s,3H),1. =6.6Hz,1H),5.83(s,1H),7.06-7.21 IR(KBr)1603,1521,1483,1376.1		1H),7.52(d,J=8.7Hz,2H)
7.64(m,2H) IR(KBr)1607,1520,1481,1373,1 ¹ HNMR(CDCl ₃) δ 1.76(s,3H),1. =6.6Hz,1H),5.83(s,1H),7.06-7.21 IR(KBr)1603,1521,1483,1376.1		1HNMR(CDCl ₃) § 2.68(s,3H),3.13(s,3H),3.53(s,3H),3.78(s,3H) § 19(s,2H) § 83(s,1H) 7.10,7.10, 2.
IR(KBr)1607,1520,1481,1373,1 'HNMR(CDCl ₃) & 1.76(s,3H),1. =6.6Hz,1H),5.83(s,1H),7.06-7.2 IR(KBr)1603,1521,1483,1376,1	1.57	
¹ HNMR(CDCl ₃) δ 1.76(s,3H),1. =6.6Hz,1H),5.83(s,1H),7.06-7.2 IR(KBr)1603,1521,1483,1376.1		IR(KBr)1607,1520,1481,1373,1231,1176,1119,1078cm ⁻¹
=6.6Hz,1H),5.83(s,1H),7.06-7.2 IR(KBr)1603,1521,1483,1376,1		1HNMR(CDCl ₃) & 1.76(s,3H),1.82(s,3H),2.72(s,3H),3.23(s,3H),3.78(s,3H),3.78(s,3H),3.78(s,3H),3.78(s,3H),3.78(s,3H)
IR(KBr)1603,1521,1483,1376,1366,1176,1085cm-1	I-58	=6.6Hz, 1H), 5.83 (s, 1H), $7.06-7.20$ (m, 3 H), $7.31-7.40$ (m, 2 H), $7.56-7.65$ (m, 9 H)
		IR(KBr)1603,1521,1483,1376,1366,1176,1085cm ⁻¹

Table 22

I-59	1H), 6.44(s, 1H), 6.90-719(m, 5H), 7.56-7.67(m, 2H) 1R(KBr)3545, 3385, 1605, 160, 110, 110, 110, 110, 110, 110, 110
1.60	¹ HNMR(CDCl ₃) δ 3.49(s, 3H), 3.74(s, 3H), 5.15(s, 2H), 5.68(s, 1H), 5.91(s, 1H), 6.02(s, 2H), 6.43(s, 1H), 6.88-7.19(m, 6H), 7.31-7.48(m, 5H)
	IR(CHCl ₃)3535,1615,1588,1519,1500,1482,1410,1290,1241,1204,1092,1041cm ⁻¹
I-61	HNMR(CDCl ₃) & 1.76(s,3H), 1.81(s,3H), 2.73(s,3H), 3.23(s,3H), 3.57(s,3H), 3.77(s,3H), 4.64(d,J=6.6Hz,1H), 5.50(t,J=6.6Hz,1H), 6.03(s,2H), 6.83(s,1H), 6.91(d,J=8.1Hz,1H), 7.08(d,J=8.1Hz,1H), 7.09(d,J=8.1Hz,1H), 7.14(s,1H), 7.34(d,J=8.1Hz,1H), 7.39(s,1H), 7.39(s,1H)
	IR(CHCl ₃)1607,1518,1477,1453,1360,1370,1370,1370,1370,1370,1370,1370,137
	1HNMR(CDCl ₃) & 1.76(s, 3H), 1.82(s, 3H), 3.49(s, 3H), 3.74(s, 9H), 4.51(s, 1H), 1.52(s, 3H), 2.49(s, 3H), 3.49(s, 3H), 3.44(s, 9H), 4.51(s, 9H), 4
I-62),6.43(s,1H),6.88-6.96(m,3H),7.03-7.18(m,3H)
	IR(KBr)3494,1610,1583,1561,1519,1480,1460,1409,1286,1243,1191,1197,1080,10361
	m.p.201-202°C
I-63	1HNMR(CDCl ₃) δ 3.78(s,6H),5.16(s,4H),5.69(s,2H),6.93(s,2H),6.99(d,1-9.4H-91),7.91
}	1Hz,2H),7.37-7.47(m,10H),
	IR(KBr)3600-3100(br), 1584, 1523, 1454, 1272, 1245, 1910, 11361
	1100011
I-64	¹ HNMR(CDCl ₃) δ 3.12(s,6H),3.80(s,6H),5.18(s,4H) 6 92(s, 9H) 7 19/4 1–9 717 212 212 212 212
	IR(KBr)1523,1492,1356,1290,1263,1210,1189,11142,111,11142,111,112,111,1136-7.50(m,12H),7.60(d,J=2.1Hz,2H)
	III) TITLE OF THE STATE OF THE

Table 23

	"HNMR(CDCl3) & 1.76(d,J=0.9Hz,6H), 1.81(d,J=0.6Hz,6H), 3.22(s,6H), 3.80(s,6H), 4.63(d,J=6.6Hz,4H) 5.48.5.52(m, 942)
I-65	s,2H),7.05(d,J=8.4Hz,2H),7.48(dd,J=2.1and8.4Hz,2H),7.57(d,J=2.1Hz,2H)
	IR(KBr)1523,1492,1468,1353,1286,1258,1213,1174,1108cm ⁻¹
	1HNMR(CDCl3) & 1.76(s,6H),1.82(s,6H),3.78(s,6H),4.62(d,J=6.9Hz,4H),5.50.555(m,2H),5.71/6.3H),6.01.6.01.6.01.
99·I	d,J=2.1and8.4Hz,2H),7.57(d,J=2.1Hz,2H)
	1R(KBr)3600-3200(br),1523,1492,1271,1242,1210,1186,1034cm-1
	1HNMR(CDCl ₃) & 1.77(s, 3H), 1.81(s, 3H), 3.22(s, 3H), 3.28(s, 3H), 3.48(s, 3H), 3.80(s, 3H), 4.22(s, 3H), 4
1-67	92(s,1H),6.93(s,1H),7.06(d,J=8.4Hz,1H),7.13(d,J=8.4Hz,2H),7.43-7.517, 3H3 7.574, 1-5.417, 113,000,000,000,000,000,000,000,000,000,
	$1R(KBr)3600.3200(br), 1525, 1493, 1362, 1293, 1210, 1172, 1107cm^{-1}$
	m.p.168-169°C
1.68	1HNMR(CDCl ₃) & 3.18(s,3H),3.78(s,3H),3.79(s,3H),5.17(s,2H),5.71(s,1H),6.92(s,1H),6.96(
3	J=2.1and8.7Hz,1H);7.24(d,J=2.1Hz,1H),7.26-7.48(m,7H)
	IR(KBr)3600-3200(br),1488,1382,1369,1269,1206,1174,1146cm ⁻¹
	m.p.155-157°C
1.60	1HNMR(CDCl ₃) & 3.12(s,3H),3.19(s,3H),3.80(s,6H),5.18(s,2H),6.92(s,1H),6.95(s,1H),7.19(d,1-9.7H-11),7.19(s,3H),7.19(s,3H),7.19(s,3H),7.19(s,4H),7.19(s,4H),6.92(s,1H),6.92(s,1H),7.19(s,1H),7.19(s,3H),7.19(s,3H),7.19(s,4H
3	60-7.65(m,3H)
	IR(KBr)1491,1363,1210,1174,1151,1114cm ⁻¹
	m.p.109-110°C
1.70	1HNMR(CDCl ₃) & 1.77(s,3H), 1.81(s,3H), 3.19(s,3H), 3.23(s,3H), 3.80(s,6H) 4 64(d, 1=6,6H ² ,9H) 5 05 5 20(2,111) 2 2 3 (s, 111) 2 2 3 (s, 111) 2 3 3 (s, 111) 2 3 3 (s, 111) 3 3 3 3 (s, 111) 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
?	95(s,1H),7.06(d,J=8.7Hz,1H),7.33-7.37(m,2H),7.49(dd,J=2.1and8.7Hz,1H),7.86(d,J=9.1Hz,1H),7.11,0.05(d,J=8.7Hz,1H),7.11,0.05(d,J
	IR(KBr)1522,1489,1368,1351,1294,1260,1212,1178,1149,1114,975cm ⁻¹

Table 24

1-71 7.01(m,5H),7.3 1R(KBr)3600-3 m.p.123-124°C 1-72 04(t,J=8.7Hz,1 1R(KBr)1524,1 m.p.118-119°C 1-73 4H),7.03(t,J=8. 1R(KBr)3600-3 1HNMR(CDCl3 1-74 1Hz,1H),7.36-7 1R(KBr)3700-3 1R(KBr)3700-3	00 3 (H)
	7.01(m,5H),7.34-7.39(m,2H),8.89(s,1H),9.45(s,1H)
	$\overline{1R({ m KBr})3600\cdot3100(br)},1524,1493,1458,1386,1261,1206,1010cm^{-1}$
	.124°C
	1HNMR(CDCl3) & 1.77(s,3H),1.81(s,3H),3.19(s,3H),3.80(s,6H),4.64(d,J=6.9Hz,2H) 5 52.5 57(m,1H) 6 93/2,1H) 6 94/2,1H)
	04(t,J=8.7Hz,1H),7.26-7.39(m,3H),7.60-7.65(m,2H)
	IR(KBr)1524,1494,1463,1379,1265,1211,1174,1154,1130cm ⁻¹
	119°C
	¹ HNMR(CDCl ₃) & 1.77(s,3H),1.81(s,3H),3.79(s,3H),3.80(s,3H),4.63(d,J=6.9Hz 2H) 4 86(s,1H) 5 52 5 57(m, 1H) 6 86 5 50 5
	4H),7.03(t,J=8.7Hz,1H),7.26-7.29(m,1H),7.37(dd,J=2.4and12.9Hz.1H),7.40.750(m,9H)
	IR(KBr)3600-3100(br),1525,1492,1466,1381,1263.1206cm ⁻¹
	1HNMR(CDCl3) & 2.63(s,3H),3.19(s,3H),5.18(s,2H),5.74(s,1H),7.03(d,3=8.4Hz,1H),7.07(dd,1-9.1524,00,4Hz,1H),7.03(d,3=8.4Hz,1H),7.
	1Hz, 1H), 7.36-7.68(m, 12H)
•	$IR(KBr)3700\cdot3200(br),1486,1367,1353,1197,1179,1147cm^{-1}$
	1HNMR(CDCl ₃) & 2.80(s, 3H), 3.14(s, 3H), 3.19(s, 3H), 5.20(s, 2H), 7.18(d. J=8.4Hz, 1H), 7.38, 7.68(, 14H)
	IR(KBr)1485,1361,1186,1156,1107cm ⁻¹
'HNMR(C)	HNMR(CDCl ₃) & 1.78(s,3H),1.82(s,3H),2.81(s,3H),3.19(s,3H),3.26(s,3H),4.65(d,1=7.2Hz,1H) 5.47.5.59(m,1H) 7.11,3.11-6.7
I.76 Hz,1H),7.3	Hz,1H),7.37-7.67(m,9H)
IR(KBr)14	IR(KBr)1486,1365,1186,1154,1106,973,926,870,810cm ⁻¹

Table 25

	m.p.174-176°C
1.77	"HNMR(CDCl ₃) δ 1.72(s,3H),1.76(s,3H),4.55(d,J=6.0Hz,2H),5.45-5.49(m,1H),6.82-7.43(m 10H) 8 84(s 1H) 9 45(s 1H) 6 522
: •	s,1H)
	IR(KBr)3600-3100(br),1610,1594,1532,1496,1444,1409.1305.1245.1209cm-1
	m.p.134-135°C
1.78	1 HNMR(CDCl ₃) δ 3.78(s,3H),3.79(s,3H),5.17(s,2H),5.70(s,1H),6.91(s,1H),6.95(s,1H),6.96(d,1=8.4Hz,1H),7.07.7.11(s,2H),5.70(s,1H)
	22(d,J=2.1Hz,1H),7.36-7.47(m,5H),7.52-7.57(m,2H)
	IR(KBr)3600-3100(br), 1524, 1494, 1462, 1381, 1273, 1248, 1213cm ⁻¹
	1HNMR(CDCl ₃) & 3.12(s,3H),3.79(s,3H),3.80(s,3H),5.18(s,2H),6.92(s.1H),6.94(s.1H),7.09.7 15(m.3H),7.98.7 50/2 010,7.39
I.79	d,J=2.1Hz,1H)
	IR(KBr)1522,1493,1467,1387,1365,1279,1213,1112cm ⁻¹
	m.p.110-1111°C
1.80	¹ HNMR(CDCl ₃) & 1.77(s, 3H), 1.81(s, 3H), 3.22(s, 3H), 3.78(s, 3H), 3.80(s, 3H), 4.63(d, 1=6.9H), 5.50, 5.57(2, 11), 6.61(-11), 6
	94(s,1H),7.04-7.14(m,3H),7.47-7.58(m,4H)
	IR(KBr)1552,1493,1364,1212,1110,970cm ⁻¹
	1HNMR(CDCl ₃) § 1.77(8,3H), 1.82(8,3H), 3.78(8,3H), 3.79(8,3H), 4.62(d.J=6.9Hz 2H) & 60.5 & 66. 1H) & 70/2 111) & 60.5 &
1.81	3H), $7.06-7.14$ (m, $3H$), 7.20 (d, $J=1.8$ Hz, JH), $7.52-7.57$ (m, $2H$)
	IR(KBr)3536,1520,1493,1386,1271,1241,1210cm-1
	1HNMR(CDCl3) & 1.29(t, J=7.2Hz, 3H), 1.76(s, 3H), 1.79(s, 3H), 3.78(s, 6H), 3.78(a, 2H), 4.64(d, 1=6.3Hz, 9H), 4.79(s, 9H), 6.72 = 2.0
I-82	
	1K(KBr)1758,1524,1496,1461,1387,1263,1209,1147cm ⁻¹

	1HNMR(CDCl ₃) § 2.76(s,3H),3.21(s,3H),3.55(s,3H),5.26(s,2H),6.85(s,1H) 7 17(d,1=8 7H, 1H) 7 21 7 50(911)
I-83	60-7.71(m,3H),7.92(s,1H)
	1R(KBr)1684,1606,1512,1478,1177,1150,1080,1016cm ⁻¹
	¹ HNMR(CDCl ₃) δ 1.26(t, J=7.2Hz, 3H), 3.08(s, 3H), 3.22(s, 3H), 3.31(s, 3H), 3.74(s, 3H), 4.16(s, 1-7.9 Hz, 9H), 5.17(s, 9H), 6.17(s, 1-7.9 Hz, 9H), 6.17(s, 1-7.9 Hz), 6.17(s, 1-7.9 Hz)
1.84	16.5Hz, 1H), 6.89(s, 1H), 7.13(s, 2H), 7.27(d, J=8.4Hz, 1H), 7.35-7.50(m, 8H), 7.69(d, 1=8.4Hz, 1H), 7.35-7.50(m, 8H)
	IR(KBr)1708,1633,1513,1465,1367,1271,1230,1176.1151,1120,1017cm ⁻¹
	1HNMR(CDCl ₃) δ 1.26(t, J=7.2Hz, 3H), 3.22(s, 3H), 3.31(s, 3H), 3.74(s, 3H) 4 16(σ, 1=7.9Hz, 9H) 5 15(z, 9H) 5 1
1.85	16.5Hz, 1H), 6.69(dd, J=8.4and2.4Hz, 1H), 6.88(s, 2H), 7.00(d, J=8.4Hz, 1H), 7.33, 7.50(m, gu), 7.34, 7.50(m, J=8.4Hz, 1H), 6.53(d,
	IR(KBr)3398, 1675, 1627, 1581, 1512, 1465, 1370, 1284, 1256, 1391, 1148, 1074, 1017, 1017, 1148, 1017, 1148, 1017, 1148, 1017, 1148, 1017, 1148, 1017,
	1HNMR(CDCl ₃) δ 2.53(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),4.58(s,2H) 5.24(s,9H) 6.83(c,1H) 6.06(3,11,10,11)
1.86	57(m,9H),7.69(d,J=8.4Hz,2H)
	IR(KBr)1605,1512,1479,1366,1233,1175,1149,1080,1015cm ⁻¹
	1HNMR(CDCl ₃) § 1.76(s,3H),1.81(s,3H),3.27(s,3H),3.78(s,3H),3.79(s,3H),4 63(d,1=6,6H ₂ ,9H),5.40,5 = 6/2, 113, 2.23, 113, 2.23, 113, 2.23
I-87	07(s,1H),6.91-6.95(m,3H),7.05-7.20(m,3H),7.43-7.51(m,2H)
	IR(KBr)3600-3200(br), 1617, 1525, 1494, 1464, 1361, 1292, 1208, 1178, 1101, 1032
1.88	1HNMR(CDCl ₃) & 2.57(s, 3H), 3.20(s, 3H), 3.56(s, 3H), 5.18(s, 2H) & 84(s, 1H) 7.06.7 1E(2, 1U) 7.96.7 1E(2, 1H)
3	7.57(m,2H),7.60-7.75(m,3H),8.20-8.25(m,2H)
1.89	1HNMR(CDCl3) & 3.44(s,3H),3.75(s,3H),5.01(s,1H),5.18(s,2H),6.01(s,1H),6.45(s,1H),6.88,6.07(-,511),7.07(-,511)
	Hz,1H),7.15-7.21(m,1H),7.27(dd,1=19 3and9 1Hz, 1U), 7.66 7.43 (m, 21), 1.01 (dd, 3=8.4and8.4
	(4.5) 12:0aiiu2:1111,111,1.29-1.43(m,3H),7.45-7.56(m,4H)

Table 27

1-90	'HNMR(CDC! ₃) & 1.68(s,3H),1.75(d,J=0.9Hz,3H),2.55(dt,J=6.9and6.9Hz,2H),2.70(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),4 .04(t,J=6.9Hz,2H),5.17-5.28(m,1H),6.84(s,1H),7.04(dd,J=8.4and8.4Hz,1H),7.11-7.22(m,2H),7.34-7.42(m,2H),7.65-7.75(m,2H)
	IR(KBr)1522,1483,1361,1352,1176,1156,1079,963,873,801cm-1
1.91	¹ HNMR(CDCl ₃) δ 2.96(s,3H),3.52(s,3H),3.58(s,6H),3.73(s,3H),4.89(s,2H),5.19(s,2H),5.23(s,2H),5.25(s,2H),6.68(s,1H),6.98(d,J=8.4Hz,1H),7.04(dd,J=8.4and2.1Hz,1H),7.11(m,2H),7.25(d,J=2.1Hz,1H),7.30-7.40(m,5H),7.51(m,2H) IR(KBr)2952,2935,2896,1609,1521,1477,1463,1438,1383,1269,1249,1228,1183,1153,1130,1116,1078,1066,1009,1002,1002,1002,1002,1002,1002,1002
	244,342,303,832,801,730cm ⁻¹
1.92	l ₃) δ 2.70(brs,3 (dd,J=2.1,8.4Hz 2800(br) 1607
I-93	HNMR(CDCl ₃) δ 2.59(dt,J=6.6,6.6Hz,2H),3.45(s,3H),3.74(s,3H),4.15(t,J=6.6Hz,2H),5.15(dm,J=10.2Hz,1H),6.45(s,1H),6.92(d,J=8.4Hz,2H),6.95(s,2H),7.06(brs,1H),7.53(d,J=8.4Hz,2H)
I-94	¹ HNMR(CDCl ₃) δ 0.36(m,2H),0.66(m,2H),1.31(m,1H),3.45(s,3H),3.74(s,3H),3.91(d,J=7.2Hz,2H),6.44(s,1H),6.91(d,J=8.7Hz,1Hz,2H),7.07(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H)
1.95	¹ HNMR(CDCl ₃) δ 1.86(s, 3H), 3.45(s, 3H), 3.74(s, 3H), 4.54(s, 2H), 5.04(brs, 1H), 5.12(brs, 1H), 6.45(s, 1H), 6.91(d, J=8.7Hz, 2H), 6.9 (dr. 2H), 7.08(brs, 1H), 7.53(d, J=8.7Hz, 2H)
	1309,1284,1265,1238,1206,1014,1493,1407,1309,1284,1265,1238,1226,1115,1073,1011,887,821,782cm ⁻¹

Table 28 --

96-1	¹ HNMR(CDCl ₃) δ 2.58(t,J=2.4Hz,1H),3.45(s,3H),3.74(s,3H),4.79(d,J=2.4Hz,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.98(dd,J=8.4,2.1Hz,1H),7.07(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.53(d,J=8.7Hz,2H) 1R(Nujol)3410.3282.1612.1580.1522.1420.1420.1420.1420.1420.1420.1420.14
1.97	1HNMR(CDCl ₃) & 2.71(s,3H),3.21(s,3H),3.38(s,3H),3.56(s,3H),3.78(s,3H),5.47(s,2H),6.84(s,1H),7.00(d,J=8.6Hz,1H),7.34(dd
	m.p.200-203°C
86-1	1HNMR(CDCl ₃) δ 2.38(s,3H),2.67(s,3H),3.12(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),5.14(s,2H),6.84(s,1H),7.15(d,J=8.7Hz,1H),7.21(d,J=8.1Hz,2H),7.34(d,J=8.1Hz,2H),7.34(dd,J=8.7,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.40(d,J=2.4Hz,1H),7.68(d,J=8.7Hz,2H)
	IR(Nujol)1608,1520,1480,1359,1173,1156,1078,1016,976,948,872,818,791cm ⁻¹
I-99	¹ HNMR(CDCl ₃) δ 2.72(s,3H),3.13(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.15(s,2H),6.84(s,1H),7.09(d,J=8.7Hz,1H),7.12(dd,J=8.7,7.2Hz,1H),7.38(d,J=8.7Hz,2H),7.40(d,J=2.1Hz,1H),7.45(dd,J=8.7,5.1Hz,1H),7.68(d,J=8.7Hz,2H),7.40(d,J=2.1Hz,1H),7.45(dd,J=8.7,5.1Hz,1H),7.68(d,J=8.7Hz,2H),7.40(d,J=8.7Hz,1H),7.45(dd,J=8.7,5.1Hz,1H),7.68(d,J=8.7Hz,2H),7.40(d,J=8.7Hz,1H),7.45(dd,J=8.7Hz,1H),7.68(d,J=8.7Hz,1H),7.68(d,J=8.7Hz,2H),7.40(d,J=8.7Hz,1H),7.45(dd,J=8.7Hz,1H),7.68(d,J=
I-100	¹ HNMR(CDCl ₃) δ 2.76(s,3H),3.19(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.25(s,2H),6.85(s,1H),7.13(d,J=8.4Hz,1H),7.32(dd,J=8.4,1.8Hz,1H),7.36(dd,J=8.4,1.8Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d,J=1.8Hz,1H),7.45(d,J=1.8Hz,1H),7.59(d,J=8.4Hz,1H),7.68(d,J=8.7Hz,2H)
	m.p.103-105°C
I-101	3) & 2.18(dd,J=1) .7Hz,2H),6.95(s,
	$\frac{1}{10000000000000000000000000000000000$

Table 29

	m.p.95-99°C
1.102	HNMR(CDCl ₃) δ 3.45(s,3H),3.74(s,3H),4.67(s,2H),5.47(m,1H),5.55(dd,J=2.7,1.2Hz,1H),6.45(s,1H) 6.92(d.1=8.7Hz,9H) 7.0
	1(m,2H),7.04(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H)
1.103	1HNMR(CDCl ₃) & 3.45(s,3H),3.75(s,3H),4.59(d,J=4.2Hz,2H),6.45(s,1H) & 45(m,1H) & 55/4 1–19 0H-111 C C C C C C C C C C C C C C C C C C
100	H), 6.96(brs, 2H), 7.08(brs, 1H), 7.53(d, J=8.7Hz, 2H)
1.104	1HNMR(CDCl ₃) & 3.45(s, 3H), 3.75(s, 3H), 4.64(dd, J=6.0and1.2Hz, 2H), 6.23(dt, J=13.2and6.0Hz, 1H), 6.49(4t, I=12.9, 11), 6.49(4t, I=13.9, 11), 6.49(4t,
	1H), 6.45(s, 1H), 6.91(d, J=8.7Hz, 2H), 6.96(brs, 2H), 7.08(brs, 1H), 7.58(d, J=8.7Hz, 9H)
1,105	1HNMR(CDCl ₃) & 3.46(s,3H),3.75(s,3H),3.98(d-like,J=7.2Hz,1H) 4 64/d-like, 1=3 9Hz, 1H) & 64/d-like, 1=3 9Hz, 1H)
601-1	H, dt, J=15.3, 6.0 Hz, 1H), 6.45(s, 1H), 6.92(d, J=8.7 Hz, 2H), 6.95(s, 1H), 7.08(s, 2H), 7.08(s
	foam
1.106	1HNMR(CDCl ₃) & 1.76(s,3H),1.83(s,3H),2.08(s,3H),3.36(s,3H),3.71(s,3H) 4 61(d,1=7 0H ₂ 9H) 4 64(c, 1H) 5 54(c, 1
2	H),5.70(s,1H),6.70(dd,J=8.4,2.0Hz,1H),6.74(s,1H),6.84(d,J=2.0Hz,1H)
	$IR(KBr)3410,1520,1476,1390,1243,1225,1101,1084,834,812,775cm^{-1}$
	m.p.112-114°C
	1HNMR(CDCl ₃) δ 3.03(s,3H),3.57(s,3H),3.74(s,3H),4.90(S 2H) 5 15(s 9H) 5 63(c, 11) 6 28(-11) 5 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
1.107	H),7.38-7.51(m,5H),7.53(m,2H)
	IR(KBr)3512,2952,2936,1607,1519,1468,1442,1382,1284,1253,1229,1215,1185,115,119,1070,1021,1020,1020,1020,1020,1020,1020
	lcm ⁻¹
1.108	1HNMR(CDCl3) & 2.20(d,J=1.2Hz,3H),2.76(s,3H),3.22(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.65(,2
	$\frac{d}{d} = 8.4 \text{Hz}, 1 \text{H}, 7.34.7.41 \text{(m, 4H)}, 7.68 \text{(m, 2H)}$

	m.p.153-154°C
1,100	"HNMR(CDCl ₃) & 2.20(d,J=1.5Hz,3H),2.75(s,3H),3.21(s,3H),3.23(s,3H),3.56(s,3H),3.78(s,3H),4.81(m.2H) 5.80(m.1H) 6.84/
601.1	s,1H),7.10(d,J=8.1Hz,1H),7.34-7.41(m,4H),7.68(m,2H)
	IR(KBr)1519,1481,1390,1364,1234,1177,1150,1119,1077,1011,969,945,876,816,799,591,223,1177,1150,1119,1077,1011,969,945,876,816,799,591,223,1177,1150,1119,1077,1011,969,945
1.110	1HNMR(CDCl ₃) & 2.68(s, 3H), 3.11(s, 3H), 3.21(s, 3H), 3.56(s, 3H), 3.88(s, 3H), 3.83(s, 3H), 5.11(s, 2H) 6.84(s, 1H) 6.93(d, 1=8.7Hz)
011.1	2H), 7.16(d, J=8.7Hz, 1H), 7.35(dd, J=8.7.2.1Hz.1H), 7.36.7 40(m.5H), 7.68(d.1=8.7Hz, 9H)
	¹ HNMR(CDCl ₃) δ 2.78(s, 3H), 3.22(s, 6H), 3.55(s, 3H), 5.23(s, 2H), 6.85(s, 1H), 7.08(d, 1=8.7H ² , 1H), 7.34(dd, 1-8.7.9.1)
111.1	Hz, 1H), 7.39(d, J=8.7Hz, 2H), 7.42(d, J=2.1Hz, 1H), 7.44(hrs, 2H), 7.68(d, J=8.7Hz, 9H), 8.70(hrs, 9H), 9.70(hrs, 9H), 9.70(h
	¹ HNMR(CDCl ₃) & 2.70(s,3H),3.21(s,3H),3.24(s,3H),3.78(s,3H),5.33(s,2H),6.84(s,1H),7.15(d,1=8.4Hz,1H),7.97(d,1
1.112	J=7.5,4.2Hz,1H),7.33(dd,J=8.4,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d.J=2.4Hz,1H),7.69(hrd.J=7.5,4.2Hz,1H),7.36(dd,J=8.4,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d.J=2.4Hz,1H),7.69(hrd.J=7.15,4.2Hz,1H),7.38(dd,J=8.7Hz,2H),7.42(d.J=2.4Hz,1H),7.69(hrd.J=8.7Hz,1H),7.38(dd,J=8.7Hz,2H),7.42(d.J=2.4Hz,1H),7.42(d.J=8.7Hz,1H),7.38(dd,J=8.7Hz,1H),7.38(dd,J=8.7Hz,2H),7.42(d.J=8.7Hz,1H),7.42(d.J=8.7Hz,1H),7.38(dd,J=8.7Hz,1H),7.38(dd,J=8.7Hz,2H),7.42(d.J=8.7Hz,1H),7.42(d.J=8.7Hz,1H),7.42(d.J=8.7Hz,1H),7.38(dd,J=8.7Hz,1H),7.38(dd,J=8.7Hz,2H),7.42(d.J=8.7Hz,1H),7.42(d.J=8.7Hz,1H),7.38(dd,J=8.7Hz,1H),7.38(dd,J=8.7Hz,2H),7.42(d.J=8.7Hz,1H),7.42(d.JHz,1H),7.42(d.JHz,1H),7.42(d.JHz,1H),7.42(d.JHz,1H),7.42(d.JHz,1H),7
	H),7.76(ddd,J=7.5,7.5,1.8Hz,1H),8.61(d,J=4.2Hz,1H)
,	1HNMR(CDCl3) & 2.76(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),5.28(s,2H),6.85(s,1H) 7 17(d,1=8 4Hz,1H) 7 38(d,4
I.113	,J=8.4,2.1Hz,1H),7.38(m,1H),7.39(d,J=8.7Hz,2H),7.42(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H),7.88(d,J=8.7Hz,1H),7.88
	,8.73(brs,1H)
	1HNMR(CDCl ₃) & 3.45(s,3H),3.74(s,3H),5.10(s,2H),6.45(s,1H),6.91(d,J=8.7Hz.2H),6.95(dd,J=8.4.9.1Hz,1H),7.03(4.1-8.4Hz,1Hz,1H),7.03(4.1-8.4Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1
1.114	,1H),7.08(d,J=2.1Hz,1H),7.23(brd,J=7.8Hz,2H),7.34(brd,J=7.8Hz,2H),7.53(d,J=8.7Hz,2H)
	IR(Nujol)3464,3344,1611,1581,1523,1490,1266,1113,1073,1011,1000,821,782cm-1
	¹ HNMR(CDCl ₃) & 3.45(s, 3H), 3.75(s, 3H), 5.11(s, 2H), 6.45(s, 1H), 6.92(d, J=8.7Hz, 2H), 6.96(dd, J=8.4.9, 1H), 7.01(4.1-8.4Hz)
I-115	,1H),7.09(d,J=2.1Hz,1H),7.11(dd,J=8.7,8.7Hz,2H),7.42(dd,J=8.7,5.4Hz.2H),7.54(d.1=8.7Hz,9Hz,9H),7.54(d.1=8.7Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9
	IR(Nujol)3560,3400,1612,1589,1522,1492,1260.1225,1116.1068.1006.992.841.826.803.7861

Table 31

	14NMR(CDCl3) & 3.45(s,3H),3.75(s,3H),5.23(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.97(brs,2H),7.11(brs,1H),7.31(dd,J=8.4
1.116	2.1Hz,1H),7.46(d,J=8.4Hz,1H),7.47(d,J=2.1Hz,1H),7.54(d,J=8.7Hz,2H)
	IR(Nujol)3460,3359,1610,1594,1522,1490,1264,1164,1110,1072,1008,877,824,781cm ⁻¹
	1HNMR(CDCl ₃) & 3.45(s,3H), 3.75(s,3H), 3.84(s,3H), 5.07(s,2H), 6.45(s,1H), 6.92(d,J=8.7Hz,2H), 6.95(d,J=9.0Hz,2H), 6.96(d,J=9.0Hz,2H), 6.96(d,J=
1.117	=8.4,1.8Hz,1H),7.04(d,J=8.4Hz,1H),7.08(d,J=1.8Hz,1H),7.37(d,J=8.7Hz,2H),7.53(d,J=9.0Hz,2H)
	IR(Nujol)3400,1612,1586,1516,1488,1246,1174,1113,1070,1011,823cm ⁻¹
	1HNMR(DMSO-d ₆) δ 3.29(s,3H),3.64(s,3H),5.20(s,2H),6.39(s,1H),6.64(dd,J=8.4,2.1Hz,1H),6.79(d,J=2.1Hz,1H) 6.84(d,J=8.4,2.1Hz,1H).
1.118	7Hz,2H),6.92(d,J=8.4Hz,1H),7.43(d,J=8.7Hz,2H),7.52(d,J=6.0Hz,2H),8.59(d,J=6.0Hz,2H)
	IR(Nujol)3473,3441,1610,1582,1523,1493,1404,1241,1112.1074.1005.816.782cm-1
	¹ HNMR(CDCl ₃) δ 3.45(s,3H),3.74(s,3H),5.27(s,2H),6.45(s,1H),6.92(dd,J=8.4,1.8Hz,1H),6.93(d,J=8.7Hz,2H),7.11(d,J=8.4Hz,1H),6.93(d,J=8.7Hz,2H),7.11(d,J=8.4Hz,1H),6.93(d,J=8.7Hz,2H),7.11(d,J=8.4Hz,1H),6.93(d,J=8.7Hz,2H),7.11(d,J=8.4Hz,1H),7.
1,119	,1H),7.12(d,J=1.8Hz,1H),7.31(m,1H),7.36(brd,J=7.5Hz,1H),7.53(d,J=8.7Hz,2H),7.77(ddd,J=7.5.1.8Hz,1H),8 66(4.1-5.0
711-1	Hz, IH)
	$IR(Nujol)3555,3467,3342,1608,1597,1586,1522,1466,1210,1117,1080,1016.822.761cm^{-1}$
	1HNMR(CDCl ₃) δ 3.45(s, 3H), 3.74(s, 3H), 5.21(s, 2H), 6.46(s, 1H), 6.91(d, J=8.7Hz, 2H), 6.99(brs, 2H), 7.11(brs, 1H), 7.40(dd, 1=7.5)
1.120	5.0Hz,1H),7.53(d,J=8.7Hz,2H),7.83(d,J=7.5Hz,1H),8.64(brd,J=5.0Hz,1H),8.74(brg,1H)
	IR(Nujol)3342, 1609, 1586, 1522, 1489, 1253, 1118, 1074, 1010, 827, 782cm ⁻¹
	m.p.166·168℃
[.12]	1 HNMR(CDCl ₃) δ 3.45(s,3H),3.75(s,3H),4.77(d,J=6.3Hz,2H),6.22(t,J=6.3Hz,1H),6.93(d,J=8.7Hz.2Hz.2Hz.2H),6.93(d,J=8.7Hz.2Hz.2Hz.2Hz.2Hz.2Hz.2Hz.2Hz.2Hz.2Hz.2
	98(dd,J=8.7,1.8Hz,1H),7.08(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H)
	IR(KBr)3474,3411,2957,2930,1615,1589,1569,1523,1492,1407,1286,1263,1930,1113,1070,8351

Table 32

	m.p.190.192°C
I-122	"HNMR(CDCl ₃) & 2.56(s,3H),3.22(s,3H),3.56(s,3H),3.79(s,3H),5.17(s,2H),5.73(s,1H),6.84(s,1H),6.93(dd, 1=8,10,d1,0u _{2,1} u ₃)
	,7.02(d,J=8.1Hz,1H),7.05(d,J=1.9Hz,1H),7.37-7.45(m,1H),7.71(d,J=8.6Hz,2H)
	IR(KBr)3512,1519,1484,1367,1174,1150,1078,957,870,798cm ⁻¹
	foam
1.193	¹ HNMR(CDCl ₃) δ 3.08(s,3H),3.21(s,3H),3.44(s,3H),3.78(s,3H),5.15(s.2H) 6 95(s.1H) 7 11(A 1-8 7Hz, 1U) 7 22 7 22 22 22 22 22 22 22 22 22 22 22
071-1	71(d,J=8.7Hz,2H),13.3-14.5(brs,1H)
	IR(KBr):3422,1735,1702,1520,1471,1366,1175,1150,1118,971,954,863,807,1
	m.p.258-259°C(dec)
1.194	1HNMR(DMSO-d6) & 3.32(s,3H),3.69(s,3H),5.10(2H,s),6.65(dd,J=8.4.2.1Hz,1H) 6.79(d.1=9.1Hz,1H) 6.86(d.1=0.1Hz,1H)
	90(s, 1H), 6.94(d, J=8.4Hz, 1H), 7.30-7.54(m, 7H), 8.98(s, 1H), 9.63(s, 1H)
	IR(KBr):3437,3157,1702,1610,1590,1521,1474,1464,1379,1260,1245,1994,1061,1014,059,504,505,505
L.195	¹ HNMR(CDCl ₃) § 1.75(s,3H),1.81(s,3H),3.21(s,3H),3.41(s,3H),3.68(s,3H),3.77(s,3H),4.61(4,1-6.011,011,011,011,011,011,011,011,011,011
071-1),6.93(s,1H),7.02(d,J=8.5Hz,1H),7.27(d,J=8.5 9.3 Hz,1H),7.27(d,J=8.5 Hz,1H),7.27(d,J=8
1.196	'HNMR(CDCl ₃) δ 1.75(s,3H),1.81(s,3H),3.41(s,3H),3.65(s,3H),3.76(s,3H),4.50(s,1-6.11-6.11-6.11-6.11-6.11-6.11-6.11-6.
071-1),5.67(s,1H),6.83(dd,J=8.4,2.1Hz,1H),6.87(s,1H),6.90(s,0.4,5.00),6.03(m,3H),6.03(dd,J=8.4,2.1Hz,1H),6.87(s,1H),6.03(m,3H),6.03(m,3H),6.03(dd,J=8.4,2.1Hz,1H),6.87(s,1H),6.03(m,3H),6.03(m,3H),6.03(dd,J=8.4,2.1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,
	m.p.116-117 \mathbb{C}
	¹ HNMR(DMSO-d ₆) δ 1.72(s,3H),1.76(s,3H),3.32(s,3H),3.70(s,3H) 4 53(d,1=7,1H ² ,9H) 5 49(t,1-7,1H ² ,1H) 1.11 (s,2)
I-127	Hz,1H),6.73(d,J=2.1Hz,1H),6.86(d,J=8.6Hz,2H),6.88(d,J=8.4Hz,1H),6.93(s,1H),7.47(1,J=9.11,Z),1H),6.95(dd,J=8.4,2.1
	1.9-13.4(brs, 1H)
	IR(KBr):3446,1703,1611,1593,1520,1471,1380,1260,1255,1081,007,059,8261
	1240,1041,391,392,838cm

Table 33

	lio
1.128	"HNMR(CDCI ₃) & 1.65(s,3H),1.78(s,3H),2.96(s,3H),3.22(s,3H),3.25(s,3H),3.79(s,3H),4.77(d,J=7.8Hz,2H),5.53(t,J=7.8Hz,1H),6.87(s,1H),7.39&7.67(ABq,J=8.7Hz,4H),7.70(d,J=2.1Hz,1H),7.86(d,J=2.1Hz,1H),10.36(s,1H)
	oil
I-129	¹ HNMR(CDCl ₃) & 1.73(d,J=0.9Hz,3H),1.80(s,3H),2.89(s,3H),3.20(s,3H),3.22(s,3H),3.54(s,3H),3.79(s,3H),4.66(d,J=7.8Hz,2 H),4.77(s,2H),5.55(m,1H),6.85(s,1H),7.39&7.68(ABq,J=9.0Hz,4H),7.39(d,J=2.1Hz,1H),7.44(d,J=2.1Hz,1H)
	m.p.189-190°C
1.130	1HNMR(CDCl ₃) § 1.36(s,9H),2.81(s,3H),3.22(s,3H),3.30(s,3H),3.56(s,3H),3.79(s,3H),6.86(s,1H),7.36-7.42(m,3H) 7.54(d.1=1
)	.8Hz,1H),7.67-7.72(m,3H)
	IR(KBr)1472,1363,1331,1179,1153,1082,961,950,877,846,817,791,526cm ⁻¹
	m.p.147-148°C
I-131	1HNMR(CDCl ₃) § 2.95(s,3H),3.18(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.28(s,2H),6.86(s,1H),7.38-7.44(m,7H),7.67(m,2H)
·),7.75(d,J=2.1Hz,1H),7.83(d,J=2.1Hz,1H)
	IR(KBr)1687, 1512, 1472, 1365, 1352, 1234, 1201, 1180, 1151, 1082, 971, 947, 870, 846, 810, 704, 703, 592,1
	m.p.122-124°C
1.139	1HNMR(CDCl ₃) & 1.68(s, 3H), 1.74(s, 3H), 2.80(s, 3H), 3.22(s, 3H), 3.28(s, 3H), 3.56(s, 3H), 3.62(d, J=7.8H), 9.17, 9.11, 5.917, 5.91
	1H),6.85(s, 1H),7.34(dd,J=8.1Hz,J=1.8Hz,1H),7.39&7.68(ABa,J=8.7Hz,4H),7.43(d,J=8.1Hz,1H),7.46(4.1-1.01z,11)
	IR(KBr)1474,1362,1180,1151,1076,1014,968,944,870.816.799.521cm ⁻¹
	1HNMR(CDCl ₃) δ 1.73(d,J=0.9Hz,3H),1.82(s,3H),3.44(s,3H),3.75(s,3H),4.54(d,J=6.9Hz,2H) 4.78(s,9H) 5.30(c,1H) 5.61(c,1H)
I-133	H),5.67(s,1H),6.01(s,1H),6.45(s,1H),6.92&7.52(ABa,J=8.7Hz,4H).7.02(d.1=9.1H).7.05(d.1=9.1H).7.05(d.1=9.1H).
	IR(KBr)3428,1612,1522,1483,1458,1403,1362,1334,1304,1966,1174,1116,1083,1084,526,526,526
	103,1024,970,938cm

Table 34

	m.p.167-168°C
I-134	¹ HNMR(CDCl ₁) δ 1.39(d,J=1.2Hz,3H),1.70(s,3H),3.36(d,J=8.1Hz,2H),3.45(s,3H),3.74(s,3H),4.98(s,1H),5.29(m,1H),5.96(s,1H),6.45(s,1H),6.78(s,1H),6.93&7.54(ABq,J=8.7Hz,4H),6.96(dd,J=7.8Hz,J=1.8Hz,1H),7.09(d,J=1.8Hz,1H),7.49(d,J=7.8Hz,1H)
	$IR(KBr)3413,3365,2931,1611,1552,1520,1502,1475,1455,1441,1402,1360,1323,1262,1227,1206,1182,1170,1162,1114,1100,1081,1052,1014,941,835,816,587,542cm^{-1}$
	m.p.183-184°C
- I-135	¹ HNMR(CDCl ₃) & 3.46(s,3H),3.74(s,3H),3.83(s,3H),4.78(m,2H),5.99(m,1H),6.44(m,1H),6.45(s,1H),6.92(d,J=8.7Hz.2H),6.94(
}	~~
	1R(RBr)3383,2929,1699,1523,1491,1405,1262,1236,1206,1173,1116,1071,1011,822cm ⁻¹
	'HNMR(CD ₃ OD) δ 1.26(s,3H),1.29(s,3H),3.38(s,3H),3.68(s,3H),3.80(dd,J=8.4,2.7Hz,1H),3.96(dd,J=9.6.8.4Hz,1H),4.34(dd,1
I-136	=9.6,2.7Hz,1H),6.44(s,1H),6.80(dd,J=8.1,1.8Hz,1H),6.85(d,J=8.7Hz,2H),6.86(d,J=1.8Hz,1H),7.96(d,J=8.1Hz,1H),7.46(d,J=
	8.7Hz,2H)
	IR(Nujol)3367,1612,1588,1523,1489,1254,1226,1115,1072,1013,940,814cm ⁻¹
	¹ HNMR(CD ₃ OD) δ 3.38(s,3H),3.68(s,3H),4.02(dd,J=11.0,3.6Hz,1H),4.12(dd,J=11.0,1.8Hz,1H),5.48(dd,J=3.6.1 RHz,1H),6.4
I-137	3(s,1H),6.83-6.87(m,3H),6.85(d,J=8.7Hz,2H),7.46(d,J=8.7Hz,2H)
	IR(Nujol)3410,1612,1588,1522,1487,1269,1231,1114,1071,1011,947,824cm ⁻¹
	1HNMR(CD ₃ OD) & 3.38(s,3H), 3.68(s,3H), 4.70(d,J=5.4Hz,2H), 6.43(s,1H), 6.80(dd,J=8.1,2.1Hz,1H), 6.85(d.J=8.4Hz,2H), 6.88(
I-138	d,J=2.1Hz,1H),6.98(d,J=8.1Hz,1H),7.46(d,J=8.4Hz,2H),7.62(t,J=5.4Hz,1H)
	IR(Nujol)3368,1612,1589,1523,1489,1253,1226,1114,1072,1011,940,825cm ⁻¹
	1HNMR(CDCl3) § 3.45(8,3H),3.74(8,3H),3.92(8,3H),4.75(d,J=5.1Hz,2H),6.45(8,1H),6.91(d,J=8.7Hz,2H),6.92(d,J=6.0Hz,1H)
I-139	7.00(dd,J=6.0,1.8Hz,1H),7.09(d,J=1.8Hz,1H),7.52(d,J=8.7Hz,2H),7.58(t,J=5.1Hz,1H)
	IR(Nujol)3399,1612,1589,1523,1489,1252,1226,1115,1072,1043,1014,941,895cm-1
	TOTOLINA TOTAL POLICE TO TOTAL TOTAL POLICE TO

	HNMRCDONS 2 200, 2011
_	11. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.
I-140	z,2H),6.87(d,J=2.1Hz,1H),6.98(d,J=8.4Hz,1H),7.46(d,J=8.4Hz,2H),7.75(4.J=5.4Hz,1H)
	IR(Nujol)3384,1611,1588,1523,1489,1252,1227,1115,1079,1014,894,75821
	1HNMR(CDCl ₃) § 3.45(s,3H),3.74(s,3H),4.76(d,J=5.1Hz.2H) § 15(s,9H) & 45(c, 1H) & 96(4, 1-9.41) 41 41 41 41 41 41 41 41 41 41 41 41 41
1.141	6.94(dd,J=8.4,2.1Hz,1H),7.08(d,J=2.1Hz,1H),7.31-7.40(m.5H),7.53(d.1=8.7Hz,2H),94.56(d,J=8.7Hz,1H),94.56(d,J=8.7Hz,2H),
	IR(Nujol)3399,1611,1588,1523,1489,1251,1225,1115,1072,1013,940,895cm-1
	1HNMR(CDCl ₃ ·CD ₃ OD1:1) δ 3.26(s,3H),2.64(m,4H).3.13(m,4H) 3.44(s,3H) 3.73(s,3H) 4.72(s,1-4,211,611) 6 3.26(s,3H),2.64(m,4H).3.13(m,4H)
I-142	d,J=8.7Hz,2H),6.90(dd,J=8.4,2.1Hz,1H),6.99(d,J=2.1Hz,1H),7.00(d,J=8.4Hz,1H),7.10(d,J=8.4Hz,1H),7.00(d,J=8.4H
	IR(Nujol)3492,3297,1607,1561,1523,1486,1247,1224,1113,1011,957,828,798,790,m-1
	¹ HNMR(CDCl ₃) δ 3.09(m,4H),3.45(s,3H),3.74(s,3H),3.86(m,4H),4.82(d,1=4.2Hz,2H),6.44z,2H),6.44z,2H,2.4z,2H,
I-143	,J=8.4,1.8Hz,1H),7.00(t,J=4.2Hz,1H),7.04(d,J=8.4Hz,1H),7.07(d,J=1.8Hz,1H),7.07(d,J=2.4,1.8Hz,1H),7.07(d,J=3.4Hz,1H),7.07(d,J=3.
	IR(Nujol)3366,1611,1586,1523,1488,1268,1227,1114,1070,1011.823cm ⁻¹
	1HNMR(CDCl ₃) 6 1.29(t,J=6.9Hz,3H),2.65(dd,J=15.9,6.6Hz,1H),2.81(dd,J=15.9,6.6Hz,1H) 3.44(2.2H) 3.75(2H) 3.75(2H)
I-144	=11.4,6.9Hz,1H),4.20(q,J=6.9Hz,2H),4.35(dd,J=11.4,2.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),6.4Hz,1H),4.35(dd,J=11.4,2.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),6.64(dt,J=6.9.6.9.4Hz,1H),4.65(dt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz,1H),4.66(ddt,J=6.9.6.9.4Hz),4.66(ddt,J=6.9.6.9.4Hz),4.66(ddt,J=6.9.6.9.4Hz),4.66(ddt,J=6.9.6.9.4Hz),4.66(ddt,J=6.9.6.9.4Hz),4.66(ddt,J=6.9.6.9.4Hz
	H),6.96-7.01(m,3H),7.53(d,J=8.7Hz,2H)
	lio
1.145	¹ HNMR(CDCl ₃) δ 1.68(s,3H),1.74(d,J=0.9Hz,3H),2.55(m,2H),3.44(s,3H),3.75(s,3H),4.04(t,1-7.9Hz,9Hz,9H),4.04(t,1-7.9Hz,9Hz,9Hz,9Hz,9Hz,9H),4.04(t,1-7.9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,
	(1,1,1), $(1,1,1)$, $(1,1,1)$, $(1,1,1)$, $(1,1,1,1)$,
	IR(KBr)1613,1525,1490,1475,1463,1454,1402,1304,1269,1231,1119,1079,1010,9971

Table 36

	m.p.256-257°C
1.146	¹ HNMR(DMSO-d ₆) δ 3.35(s,3H),3.44(s,3H),3.74(s,3H),5.22(s,2H),7.06(s,1H),7.28-7.56(m,11H),7.69(s,1H),7.76(d,J=8.6Hz,2 H)
	1R(KBr):3479,3360,1672,1517,1465,1361,1339,1295,1261,1228,1172,1144,1118,1013,057,970,959,904,753
	m.p163-164°C
1.147	¹ HNMR(CDCl ₃) & 1.74(s,3H),1.81(s,3H),3.43(s,3H),3.74(s,3H),4.58(d,J=6.8Hz.2H) 5.50(t.J=6.8Hz.2H) 5.50(t.J=6.8Hz.2H)
• • •),6.86-6.95(m,5H),6.90(d,J=8.6Hz,2H),6.99(s,1H),7.49(d,J=8.6Hz,2H)
	1K(KBr):3533,3412,3350,1655,1609,1588,1519,1469,1373,1274,1245;1227.1131.1082.1060.999.964.8381
1.148	1HNMR(CDCl ₃) & 2.88(s,3H),3.22(s,3H),3.54(s,3H),5.35(m,2H),6.35(m,2H),6.85(s,1H),7.94(d,1=9.0H,7.1U),7.96(1,1=9.0H,7.1U)
	$\frac{1}{12.42 \cdot 7.46}$ (m, 5H), 7.65 (d, d, $J=9.0$ & 2.1 Hz, 1 H), 7.68 (d, $J=8.7$ Hz, 9 H), 8.96 (d, $J=9.11$), $J=9.0$ (d, $J=9.0$ (d, $J=9.0$), $J=9.0$ (d, $J=9.0$ (d, $J=9.0$), $J=9.0$ (d, $J=9.$
	1HNMR(CDCl3) § 1.80(s,3H),1.85(s,3H),3.43(s,3H),3.74(s,3H) 4.80(d,1=6.9H; 9.H) 5.76(t 1-6.0H; 11), 2.43(s,3H),3.43(s,3H),3.44(s,3H),4.80(d,1=6.9H; 9.H) 5.76(t 1-6.0H; 11), 2.43(s,3H),4.80(d,1=6.9H; 9.H) 5.76(t 1-6.0H; 11), 2.43(s,3H),4.80(d,1=6.9H; 9.H),5.76(t 1-6.0H; 11), 2.43(s,3H),4.80(d,1=6.9H; 9.H),5.76(t,1=6.9H;
I-149	8.4Hz,2H),7.14(d,J= 8.7 Hz,1H),7.49(d,J= 8.4 Hz,2H)7.70(d,d,J= 8.7 &2.1Hz, 1H),8.92(d,J= 8.7 Hz,1H),6.92(d,J= 8.7 Hz,1H),8.92(d,J= 8.7 Hz,1Hz,1H),8.92(d,J= 8.7 Hz,1H),8.92(d,J= 8.7 Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1
	$\overline{1R(KBr)3472,1707,1671,1610,1520,1482,1460,1426,1269,1296,1119,1076,1019,1}$
	1HNMR(CDCl ₃) § 1.76(s,3H),1.81(s,3H),2.63(s,3H).3.21(s,3H),3.55(s,3H),3.77(c,3H),4.69(s,3H),2.63(s,3H),3.51(s,3H),3.55(s,3H),3.55(s,3H),4.69(
I-150	=6.3Hz, 1H), 6.84 (s, 1H), 6.99 (d, $J=9.0$ Hz, 1H), $7.51.7.42$ (m, 9H), 7.70 (d, $J=9.0$ Hz,
	IR(KBr)3432,1607,1512,1479,1364,1234,1176,1151,1079,1016cm ⁻¹
	1HNMR(CDCl ₃) & 1.58(s, 3H), 1.81(s, 3H), 3.45(s, 3H), 3.73(s, 3H), 4.61(d, J=6.6Hz, 2H), 4.79(s, 9H), 5.59(s, 1-6.5Hz, 1H), 2.50(s, 1-6.5Hz, 1H), 2.50(s, 1H),
1.151),6.91(d,J=8.7Hz,2H),6.98(d,J=8.4Hz,1H),7.36(d.d,J=8.4&2.1Hz,1H),7.38(d.d,J=8.4&2.1Hz,1Hz,1H),7.38(d.d,J=8.4&2.1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,
	$IR(KBr)3580,3411,1611,1521,1485,1464,1397,1233,1113,1077,1024,1001cm^{-1}$
	1HNMR(CDCl ₃) δ 3.50(s,3H),3.77(s,3H),5.15(s,2H),5.72(s,1H),6.03(s,2H),6.71(d.d.1=8.4.8.9 1 Hz, 1 Hz, 2 Hz, 1 Hz, 2 Hz, 1 Hz, 2 Hz,
I-152	97(s,1H),6.98(d,J=8.4Hz,1H),7.07(s,1H),7.09(d.d,J=8.4&2.1Hz,1H),7.16(d,J=2.1Hz,1H),7.34.7 50(m,541),000(c,11),000
	IR(KBr)3446,1697,1587,1511,1470,1383,1285,1240,1127,1036cm ⁻¹

Table 37

1-154 18-5.27(m,1H),6.92(s,1H),6.9 1-154 18-5.27(m,1H),6.92(s,1H),6.9 0-7.64(m,2H) 1-155 (m,1H),5.71(s,1H),6.87-6.93(m.p.163-175\$C 1HNMR(CDCl3) & 2.76(s,3H) 1-156 1H),6.99(d,J=1.8Hz,1H),7.37 1R(KBr)3436,1480,1415,1391 m.p.176-178\$C 1HNMR(CDCl3) & 2.08(s,3H), nd7.68(ABq,J=8.7Hz,4H),7.4 1R(KBr)1770,1747,1477,1391 m.p.175-177\$C 1HNMR(CDCl3) & 2.87(s,3H) 1-158	.4Hz,1H),7.08(dd,J=2.1,8.4Hz,1H),7.23(d,J=2.1Hz,1H),7.34-7.49(m,7H) 'HNMR(CDCl ₃) δ 1.69(s,3H),1.74(s,3H),2.51-2.58(m,2H),3.19(s,3H),3.21(s,3H),3.79(s,3H),3.80(s,3H),4.07(t,J=6.9Hz,2H),5. 18-5.27(m,1H),6.92(s,1H),6.95(s,1H),7.05(d,J=8.7Hz,1H),7.32-7.37(m,2H),7.49(dd,J=2.1,8.7Hz,1H),7.58(d,J=2.1Hz,1H),7.6 0-7.64(m,2H)
	 5 1.69(s,3H),1.74(s,3H),2.51-2.58(m,2H),3.19(s,3H),3.21(s,3H),3.79(s,3H),3.80(s,3H),4.07(t,J=6.9Hz,2H),5. 92(s,1H),6.95(s,1H),7.05(d,J=8.7Hz,1H),7.32-7.37(m,2H),7.49(dd,J=2.1,8.7Hz,1H),7.58(d,J=2.1Hz,1H),7.6
	.92(s,1H),6.95(s,1H),7.05(d,J=8.7Hz,1H),7.32-7.37(m,2H),7.49(dd,J=2.1,8.7Hz,1H),7.58(d,J=2.1Hz,1H),7.6
	HNMK(CDCl3) Ø 1.69(s,3H), 1.75(s,3H), 2.53(q, J=6.9Hz,2H), 3.77(s,3H), 3.78(s,3H), 4.07(t, J=6.9Hz,2H), 4.97(s,3H), 5.20.5.95
	(m,1H),5.71(s,1H),6.87-6.93(m,3H),7.07(dd,J=1.8,8.4Hz.1H),7.20(d,J=1.8Hz,1H),7.45-7.50(m,9H)
	1HNMR(CDCl3) 8 2.76(s,3H),3.19(s,3H),3.22(s,3H),3.54(s,3H),3.79(s,3H),5.20(s,2H),5.68(s,1H),6.84(s,1H),6.97(d,1=1,8H;
	1H),6.99(d,J=1.8Hz,1H),7.37-7.47(m,7H),7.68(m,2H)
`	IR(KBr)3436,1480,1415,1391,1363,1233,1178,1151,1079,1024,969.953.875.801.522cm ⁻¹
	δ 2.08(s,3H),2.40,(s,3H),2.72(s,3H),3.21(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.13(s,2H),6.86(s,1H),7.39a
	.7Hz,4H),7.47(d,J=2.1Hz,1H),7.49(d,J=2.1Hz,1H)
	$1R(KBr)1770,1747,1477,1391,1366,1235,1180,1152,1077,873,799,522cm^{-1}$
_	1HNMR(CDCl ₃) δ 2.87(s,3H),3.13(s,6H),3.22(s,3H),3.55(s,3H),5.81(s,3H),5.22(s,2H),6.86(s,1H) 7.38.7 45(m,7H) 7.51.7 5.2
m,2H),7.67(m,2H)	(I
IR(KBr)1479,1367,1180,1151	37,1180,1151,1080,1019,966,876,798.525cm ⁻¹

Table 38

	foam
150	1HNMR(CDCl ₃) § 2.44(s,3H),3.21(s,3H),3.54(s,3H),3.76(s,3H),3.79(s,3H),4.77(s,2H),5.24(s,2H),6.83(s,1H),6.90,7.00(m,3H)
1-109	7.30-7.48(m,5H),7.37(d,J=8.8Hz,2H),7.69(d,J=8.8Hz,2H)
	IR(KBr):1758,1519,1481,1365,1236,1176,1150,1079,1013.963.872.798cm ⁻¹
	m.p146-147°C
1.160	¹ HNMR(DMSO-d ₆) δ 3.31(s,3H),3.65(s,3H),4.63(s,2H),5.15(s,2H),6.40(s,1H),6.83-6.90(m.4H) 7 05(d.1=8.4H ₂ .1H) 7 32 7 52
001.1	(m,7H),8.57(s,1H),9.50(s,1H),12.0-13.9(brs,1H)
	IR(KBr):3422,1728,1611,1524,1489,1455,1405,1247,1142,1118,1080,1012,818,749,508cm-1
1 161	'HNMR(CDCl ₃) δ 1.76(s,3H),
101-1	2H),5.54(t,J=6.5Hz,1H),6.83(s.
٠	m.p.147-149 $\mathbb C$
	1HNMR(DMSO-dc) & 1.73(s,3H),1.77(s,3H),3.30(s,3H),3.65(s,3H),4.57(d,J=6.6Hz.2H),4.60(s,2H),5.86(t,1=6.6Hz,1H),6.40(c)
I-162	1H),6.80(d,J=1.7Hz,1H),6.84(d,J=8.7Hz,2H),6.87(dd,J=8.7Hz,1H),6.99(d,J=8.7Hz,1H) 7 43(d,J=8.7Hz,1H) 8 56(2,1H)
	s,1H),12.8(brs,1H)
	IR(KBr):3483,3376,1737,1612,1523,1489,1460,1397,1271,1231.1175.1120.1072.1012.904.820cm-1
	m.p.144-145°C
1.163	1 HNMR(CDCl ₃) δ 3.04(s,3H),3.20(s,3H),3.59(s,3H),3.75(s,3H),4.90(s,2H),5.16(s,2H),5.65(s,1H),6.67(s,1H),6.92(dd,1=2.1.g)
	4Hz,1H),7.00(d,J=8.4Hz,1H),7.06(d,J=2.1Hz,1H),7.26-7.47(m,7H),7.61-7.66(m,2H)
	IR(KBr)3600-3200(br), 1517, 1477, 1449, 1382, 1361, 1277, 1235, 1199, 1150, 1112, 1079, 1064, 1010, 997222-1
	m.p.80.83°C
I-164	1HNMR(CDCl ₃) Ø 2.99(s,3H),3.12(s,3H),3.20(s,3H),3.58(s,3H),3.75(s,3H) 4.93(s,3H) 5.18(s,2H) 6.67(s,1H) 7.19(4.11-s,711-
	1H), 7.34-7.49(m,9H), 7.60-7.65(m,2H)

Table 39

	m.p.148-151°C
1 165	14NMR(CDCl3) § 3.03(s,3H),3.57(s,3H),3.74(s,3H),4.89(s,1H),4.90(s,2H),5.15(s,2H),5.64(s,1H),6.67(s,1H),6.88-6.93(m,3H)
C01-1	6.99(d,J=8.4Hz,1H),7.06(d,J=1.8Hz,1H),7.20-7.49(m,7H)
	$1R(\mathrm{KBr})3600\cdot3200(\mathrm{br}), 1609, 1590, 1519, 1477, 1459, 1381, 1253, 1216, 1156, 1111, 1077, 1066, 1012cm^{-1}$
	m.p.199℃
1.166	¹ HNMR(CDCl ₃) δ 3.10(s,3H),3.21(s,3H),3.44(s,3H),3.76(s,3H),5.17(s,2H),6.03(s,1H),6.44(s,1H),7.14(d,J=8.4Hz,1H),7.36.7
001-1	49(m,8H),7.52(d,J=2.1Hz,1H),7.67-7.72(m,2H)
	IR(KBr)3600-3200(br),1520,1486,1362,1183,1152,1110,971cm ⁻¹
	m.p.113-115°C
1,167	1HNMR(CDCl ₃) δ 0.76(t,J=7.2Hz,3H),1.46-1.55(m,2H),3.11(s,3H),3.20(s,1H),3.63(s,1H),3.71(t,J=6.6Hz,2H),5.18(s.2H),6.64
	(s,1H),7.11(d,J=8.7Hz,1H),7.33-7.50(m,9H),7.60-7.65(m,2H)
	IR(KBr)1517,1475,1365,1345,1293,1233,1177,1149,1109,1079,1017,956cm ⁻¹
	m.p.56-58°C
1.168	1HNMR(CDCl3) & 0.76(t,J=7.5Hz,3H), 1.44-1.56(m,2H), 3.61(s,3H), 3.71(t,J=6.6Hz,2H), 3.74(s,3H), 4.86(s.1H), 5.15(s.2H), 5.63
001.1	(s,1H),6.65(s,1H),6.88-6.93(m,3H),6.98(d,J=8.4Hz,1H),7.04(d,J=1.8Hz,1H),7.37-7.50(m,7H)
	$\overline{\text{IR}(\text{KBr})3600-3200(br),1611,1590,1519,1476,1404,1379,1252,1230,1110,1078,1015cm}^{-1}$
	m.p.101-103°C
	1 HNMR(CDCl ₃) δ 0.77(t, J=7.5Hz, 3H), 1.44-1.55(m, 2H), 1.76(s, 3H), 1.81(s, 3H), 3.20(s, 3H), 3.21(s, 3H), 3.63(s, 3H), 3.71(t, J=6.6)
I-169	Hz,2H),3.75(s,3H),4.63(d,J=6.6Hz,2H),5.48-5.53(m,1H),6.64(s,1H),7.04(d,J=8.4Hz,1H),7.32-7.38(m,3H),7.42(d,J=2,1Hz,1H)
),7.60-7.65(m,2H)
	IR(KBr)1514,1473,1370,1359,1290,1233,1174,1149,1107,970cm ⁻¹

Table 40

	m.p.64-66°C
	"HNMR(CDC!3) δ 0.77(t,J=7.5Hz,3H),1.44-1.55(m,2H),1.76(s,3H),1.81(s,3H).3.20(s,3H).3.21(s,3H) 3.63(s,3H).3.71(t,1=6.6)
I-170	Hz,2H),3.75(s,3H),4.63(d,J=6.6Hz,2H),5.48-5.53(m,1H),6.64(s,1H),7.04(d,J=8.4Hz,1H),7.32-7.38(m,3H),7.49(d,J=9.1Hz,1H)
),7.60-7.65(m,2H)
	$1R(KBr)3600.2800(br), 1612, 1590, 1520, 1475, 1462, 1405, 1381, 1285, 1244, 1226, 1110, 1079, 988cm^{-1}$
	m.p.148-150°C
1.171	1HNMR(CDCl ₃) δ 1.74(d,J=0.9Hz,3H),1.80(s,3H),2.88(s,3H),3.22(s,3H),3.23(s,6H),3.55(s,3H),3.80(s,3H),4.72(d,J=7.5Hz,2
1 1 1 1	H),5.55(m,1H),6.85(s,1H),7.39&7.67(ABq,J=8.7Hz,4H),7.40(s,2H)
	IR(KBr)1514,1479,1411,1366,1179,1152,1079,1022,968,875,799.525cm ⁻¹
1.179	1HNMR(CDCl ₃) & 0.94(t,J=7.2Hz,3H),1.45(tq,J=7.2,7.2Hz,2H),2.13(m,2H),3.46(s,3H),3.74(s,3H),4.68(d,J=5.4Hz,2H),5.72(
	m,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.96(brs,2H),7.07(brs,1H),7.53(d,J=8.7Hz,2H)
	1HNMR(CDCl ₃) & 1.76(brd, J=6.3Hz, 3H), 3.46(s, 3H), 3.74(s, 3H), 4.70(d, J=5.4Hz, 2H), 5.77(m, 2H), 6.45(s, 1H), 6.91(d, J=8.7Hz, 2H)
I-173	H),6.96(brs,2H),7.07(brs,1H),7.53(d,J=8.7Hz,2H)
·	IR(Nujol)3350,1613,1587,1523,1491,1287,1261,1238,1114,1071,1011,936,820,783cm ⁻¹
1.174	1HNMR(CDCl3) & 3.45(s,3H),3.76(s,3H),4.56(s,2H),5.55(s,1H),6.45(s,1H),6.93(d,J=8.7Hz,2H),7.01(d,J=8.4Hz,1H),7.08(dd,1
	=8.4,2.1Hz,1H),7.27(d,J=2.1Hz,1H),7.54(d,J=8.7Hz,2H)
	1HNMR(CDCl ₃) & 3.45(s,3H),3.74(s,3H),4.82(dd,J=6.6,1.5Hz,2H),5.28(d,J=10.5Hz,1H),5.35(d,J=16.5Hz,1H) & 75(dt,J=10.8
1.175	,6.6Hz,1H),6.26(dd,J=10.5,10.5Hz,1H),6.45(s,1H),6.66(ddd,J=16.5,10.5,10.5Hz,1H),6.92(d.J=8.7Hz,2H),6.96(m,2H),7.07h,
2	s,1H),7.53(d,J=8.7Hz,2H)
	IR(Nujol)3399,1611,1591,1523,1489,1248,1226,1113,1071,1009,825cm ⁻¹

Table 41

	HNMR(CDCl ₃) & 1.59(m,6H),2.17(m,2H),2.24,(m,2H),2.71(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.56(s,3H)
I-176	Hz,2H),5.43(t,J=7.2Hz,1H),6.84(s,1H),7.10(d,J=8.4Hz,1H),7.34(dd,J=8.4.2.1Hz,1Hz,7.1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,
	H), 7.68(d, J=8.7Hz, 2H)
	m.p.177-178°C
	1HNMR(CDCl ₃) & 2.31(t,J=5.7Hz,2H),2.39(t,J=5.7Hz,2H),2.76(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),2.56(s,3H)
I-177	73(t,J=5.7Hz,2H),3.78(s,3H),4.67(d,J=6.6Hz,2H),5.57(t,J=6.6Hz,1H),6.84(s,1H),7.09(d,1-8.4Hz,1H),7.09(d,1-8.4Hz,1H),7.09(d,1-8.4Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1
	H), 7.38(d, J=8.7Hz, 2H), 7.39(d, J=2.1Hz, 1H), 7.67(d, J=8.7Hz, 2H)
	IR(KBr)2940,1519,1481,1362,1178,1152,1079.818cm ⁻¹
	1HNMR(CDCl ₃) § 1.04(t,J=7.5Hz,3H),1.05(t,J=7.5Hz,3H),2.12(a,J=7.5Hz,2H) 2.16(a, I=7.5Hz,9H) 9.71(c, 2U) 9.61(c, 2U)
I-178	24(s,3H),3.56(s,3H),3.78(s,3H),4.67(d,J=6.6Hz,2H),5.45(t,J=6.6Hz,1H) 6 84(s,1H) 7 11(4 1–8 4 Hz, 1H) 7 15(s,3H),3.55(s,3H)
	1H), 7.38(d, J=8.7Hz, 2H), 7.39(d, J=2.4Hz, 1H), 7.68(d.1=8.7Hz, 9H)
	¹ HNMR(CDCl ₃) δ 1.05(t, J=7.5Hz, 3H), 1.76(s, 3H). 2.10(α, J=7.5Hz, 9H) 9.71(ς, 9H) 9.91(ς, 9H) 9.91(c, 9H) 9.
I-179),4.66(d,J=6.9Hz,2H),5.48(t,J=6.9Hz,1H),6.84(s,1H),7.10(d,J=8.4Hz,1H),7.34(d,J=6.9Hz,2H),7.48(t,J=6.9Hz,1H),7.10(d,J=8.4Hz,1H),
	$\frac{dJ}{d-2}$.1Hz,1H),7.68(d,J=8.7Hz.2H)
1.180	¹ HNMR(CDCl ₃) δ 1.76(s, 3H), 1.80(s, 6H), 2.72(s, 3H), 3.21(s, 3H), 3.51(s, 3H), 3.56(s, 3H), 3.78(s, 3H), 4.61(s, 9H), 6.1(s, 9H), 6.
	d,J=8.4Hz,1H),7.34(dd,J=8.4.2.1Hz,1H),7.38(d.J=8.7Hz,9H),7.30(d.J=8.4.2.1Hz,1H),7.34(dd,J=8.4.2.1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,
	m.p.157-158 \mathbb{C}
1.181	1HNMR(CDCl3) 8 1.55-1.65(m,6H),2.18(m,2H),2.23(m,2H),3.46(9.3H),3.74(9.3H) 4 63d 1=7 9H, 9H) 5 47/4 1-7 9H
	45(s, 1H), 6.91(d, J=8.4Hz, 2H), 6.96(br.s, 2H), 7.06(br.s, 1H), 7.52(d, J=8.4Hz, 9H)
	IR(KBr)3410,2924,2854,1609,1567,1523,1490,1469,1406,1954,1991,1361,1361,1361,1361,1361,1361,1361
	7-0-1-0-1-0-1-0-1-0-1-1-0-1-1-0-1-1-1-1-

Table 42

	m n 910-991%
	"HNMR(DMSO-de) & 2.22(t, J=5.4Hz, 2H), 2.32(t, J=5.4Hz, 2H), 3.30(s, 3H), 3.56(t, 1-5.4Hz, 9H), 9.61(s, 1-5.4Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9Hz, 9
[.182	4.59(d.J=6.6Hz 2H) 5.54(t.J=6.6Hz 1H) 6.30(z.J=0.111,0.50(z.J=0.011),0.50(z.J=0.010),3.64(s.J=
] }	
	,J=8.4Hz,1H),7.43(d,J=8.4Hz,2H)
	1R(KBr)3392,2948,1609,1586,1522,1492,1271,1239,1219,1118,1076,1007,818cm ⁻¹
	m.p.149-150°C
	11 HNMR(CDCl ₃) & 1.03(t, J=7.5Hz, 3H), 1.07(t, J=7.5Hz, 3H), 2.13(q, J=7.5Hz, 2H), 2.15(q, J=7.5Hz, 2H), 3.46(s, 3H), 3.75(s, 3H), 4
1.183	64(d,J=6.6Hz,2H),5.48(t,J=6.6Hz,1H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.97(dd,J=7.8.1.5Hz,1H),6.97(d,J=6.6Hz,1Hz
	J=1.5Hz,1H),7.52(d,J=8.7Hz,2H)
	IR(KBr)3398,2963,2934,1671,1610,1523,1493,1465,1407,1259,1224,1118,1071,813cm ⁻¹
	m.p.217-218℃
1.184	¹ HNMR(CDCl ₃) δ 3.86(s, 3H), 5.16(s, 2H), 5.72(s, 1H), 6.97-7.01(m, 3H), 7.12(dd, J=2.4, 8.4Hz, 1H), 7.26(d, J=2.4Hz, 1H), 7.34.747
	(m,5H),7.54-7.58(m,2H),7.60(s,4H)
	$IR(KBr)3600-3200(br), 1605, 1590, 1493, 1298, 1282, 1253, 1206, 1183, 1022cm^{-1}$
	1HNMR(CDCl3) Ø 1.21(t,J=6.9Hz,3H),1.77(s,3H),1.82(s,3H),2.38-2.46(m,2H),2.72-2.84(m,2H),3.18(s,3H),3.21(s,3H),3.35(s,3H)
1.185	3H), 3.70(s, 3H), 4.06(q, J=6.9Hz, 2H), 4.63(d, J=6.6Hz, 2H), 5.52(t, J=6.6Hz, 1H), 6.75(e, 1H), 7.07(d, J=8.4Hz, 1H), 7.13(d, J=8.4Hz, J=8.4Rz, J=
	2.1Hz,1H),7.21(d,J=2.1Hz,1H),7.37(d,J=9.0Hz,2H),7.69(d,J=9.0Hz,2H)
	$IR(KBr)1727,1517,1469,1364,1291,1234,1179,1152,1118,1080,1003cm^{-1}$
	1HNMR(CDCl3) & 1.76(s,3H), 1.82(s,3H), 2.42-2.53(m,2H), 2.72-2.86(m,2H), 3.35(s,3H), 3.69(s,3H), 4.61(d,1=6.6Hz,2H), 5.53(t)
1.186	J=6.6Hz,1H),5.71(s,1H),6.68(d.d,J=8.4&2.1Hz,1H),6.76(s,1H),6.81(d,J=2.1Hz,1H),6.91(d,J=8.44z,9H),6.96(d.d,J=8.44z,0H)
•	7.52(d,J=8.4Hz,2H)
	$IR(KBr)3419,1707,1612,1518,1472,1390,1225,1078cm^{-1}$

Table 43

	1HNMR(CDCl ₃) & 2.55(s,3H),3.54(s,3H),3.78(s,3H),5.18(s,1H),6.85(s,1H),6.91(d,d,1]=8.48.9 1 H, 111,7.02(4,1H)
I-187	04(d,J=2.1Hz,1H),7.33-7.48(m,5H),7.71(d,J=8.4Hz,2H),7.72(d,J=8.4Hz,2H)
	IR(KBr)3442,1617,1517,1485,1485,1394,1357,1331,1171,1124,1077,1067,10161
	1HNMR(CDCl3) § 2.68(s,3H),3.13(s,3H),3.54(s,3H),3.79(s,3H),5.19(s,2H),6.86(s,1H),7.16(d,1-8.7Hz,1H),7.91,7.91,7.91
I-188	72(d,J=8.7Hz,2H),7.76(d,J=8.7Hz,2H)
	IR(KBr)1614,1513,1482,1366,1324,1177,1120,1079,1065,1016cm ⁻¹
	1HNMR(CDCl3) & 2.68(s,3H),3.13(s,3H),3.54(s,3H),3.19(s,3H),5.19(s,2H),6.86(s,1H) 7 16(d,1=8.7H,1H) 7 21 7 50/ 711 7
1.189	72(d,J=8.7Hz,2H),7.76(d,J=8.7Hz,2H)
	IR(KBr)1614,1513,1482,1366,1324,1177,1120,1079,1065,1016cm-1
	HNMR(CDCl ₃) δ 1.76(s, 3H), 1.82(s, 3H), 3.46(s, 3H), 4.62(d, J=8.4Hz, 2H), 5.53(t, J=8.4Hz, 1H), 5.71(c, 1H), 6.62(c, 1H)
I-190),6.46(s,1H),6.94(d,d,d,=8.1&1.8Hz,1H),6.98(d,J=8.1Hz,1H),7.05(d,J=1.8Hz,1H),7.05(d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,
	IR(KBr)3552,3505,3466,1613,1509,1487,1397,1324,1288,1245,1110,10651
	1HNMR(CDCl3) & 3.02(s,6H),3.48(s,3H),3.76(s,3H),5.15(s,2H),5.67(s,1H),5.95(s,1H),6.47(s,1H),6.81(4,1-0.7H, 2010,0.00)
I-191	d,J=8.4&2.1Hz,1H),7.04(d,J=8.4Hz,1H),7.10(d,J=2.1Hz,1H),7.31.7.49(m,5H),7.55(4.1-9.7uz,911)
	IR(KBr)3543,3500,1605,1526,1486,1459,1245,1198,1110,1070,999,m-1
	mp122.124°C
1.192	'HNMR(CDCl ₃) δ 2.70(brs,3H),3.55-3.60(br,2H),3.60(s,3H),3.75(s,3H).3.81-3.83(m,2H),3.87(s,3H),5.15(s,3H),5.65(s,3H),3.75(s,3H),3.81-3.83(m,2H),3.87(s,3H),5.55(s,3H),5.65(s,3H),5.75(s,3H),5.81-3.83(m,2H),3.87(s,3H),5.81-3.83(m,2H),3.81-3
	69(s,1H),6.94(dd,J=2.1,8.4Hz,1H),6.97-7.03(m,3H),7.07(d,J=1.8Hz,1H),7.38-7.48(m,5H),7.17-69(m,5H),7.
	IR(KBr)3600-2800(br),1607,1597,1550,1518,1477,1462,1459,1399,1989,1988,1175,1156,156,156,156,1477,1462,1459,1399,1989,1988,1175,1166,156,156,156,156,1469,1459,1989,1989,1988,1175,1166,156,156,156,156,156,156,156,156,1
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1

Table 44

	m.p.160-163°C
1 103	¹ HNMR(CDCl ₃) δ 3.60(s,3H),3.60-3.64(br,2H),3.76(s,3H),3.77-3.80(m,2H),5.15(s,2H),5.69(s,1H),5.88(s,1H),6.69(s,1H),6.90.
1-130	6.94(m,3H),7.02(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.38-7.51(m,7H)
	IR(KBr)3600-3200(br),1613,1588,1519,1477,1462,1397,1256,1189,1117,1078,1011cm ⁻¹
	1HNMR(CDCl3) & 3.02(s,6H),3.11(s,3H),3.50(s,3H),3.72(s,3H),4.43(brs,1H),4.58(brs,1H),5.18(s,2H),6.82(d,J=8.7Hz,2H),6.9
I-194	2(s,1H),7.16(d,J=9.3Hz,1H),7.31-7.51(m,7H),7.55(d,J=8.7Hz,2H)
	IR(KBr)3432,1611,1526,1476,1356,1291,1232,1186,1117,1079,1012cm ⁻¹
	m.p.157·158°C.
1.105	¹ HNMR(CDCl ₃) δ 3.10(s,3H),3.21(s,3H),3.56(s,3H),3.69(s,3H),3.76(s,3H),4.47(s,2H),5.17(s,2H),6.68(s,1H),7.12(d,J=8.2Hz.
001-1	1H),7.34-7.50(m,9H),7.63(d,J=8.6Hz,2H)
	IR(KBr):1748,1517,1476,1366,1232,1150,1114,968,873,812,791,750,707cm ⁻¹
	m.p.189·191℃(dec)
1.106	¹ HNMR(DMSO-d ₆) δ 3.45(s,3H),3.67(s,3H),4.25(s,2H),5.12(s,2H),6.66(dd,J=8.4,2.0Hz,1H),6.69(s,1H),6.77(d,J=2.0Hz,1H),6
0.1.1	.80(d,J=8.6Hz,2H),6.98(d,J=8.4Hz,1H),7.33-7.54(m,7H),9.01(s,1H),9.54(brs,1H)
	IR(KBr):3422,3245,1733,1611,1596,1522,1478,1400,1262,1248,1222,1207,1130,1084,1011,836,781,744,699cm-1
	m.p.151-152°C
	$ ^{1}$ HNMR(CDCl ₃) δ 1.76(s,3H),1.81(s,3H),3.20(s,3H),3.21(s,3H),3.56(s,3H),3.70(s,3H),3.75(s,3H),4.47(s,2H),4.63(d,J=6.9Hz. $ ^{1}$
I-197	2H),5.51(t,J=6.9Hz,1H),6.68(s,1H),7.05(d,J=8.4Hz,1H),7.36(dd,J=8.4,2.1Hz,1H),7.36(d,J=8.9Hz,2H),7.41(d,J=2.1Hz,1H),7
	63(d,J=8.9Hz,2H)
	IR(KBr): 1751, 1517, 1475, 1366, 1234, 1150, 1113, 968, 872, 812, 707cm ⁻¹

Table 45

1.198	m.p.155-156°C 1HNMR(DMSO-d ₆) \$\delta\$ 1.72(s,3H),1.76(s,3H),3.42(s,3H),3.67(s,3H),4.25(s,2H),4.54(d,J=6.8Hz,2H),5.49(t,J=6.8Hz,1H),6.65(d) d,J=8.4,1.9Hz,1H),6.69(s,1H),6.73(d,J=1.9Hz,1H),6.84(d,J=8.4Hz,2H),7.36(d,J=8.4Hz,1H),7.41(d,J=8.4Hz,2H),8.85(s,1H),9 55(s,1H),11.2-13.6(brs,1H) 1R(KBr):3411,3243.1733.1611.1594.1522.1477.1308.1947.1947.1947.1947.1947.1947.1947.1947
I-199	
1.200	¹ HNMR(CDCl ₃) δ 2.42(s,3H),2.71(s,3H),3.03(s,3H),3.21(s,3H),3.56(s,3H),3.79(s,3H),5.17(s,2H),6.84(s,1H),7.19(d,J=8.4Hz,1H),7.22-7.30(m,3H),7.37(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.41-7.45(m,1H),7.68(d,J=8.7Hz,2H),1.41(d,J=2.1Hz,1H),7.41-7.45(m,1H),7.68(d,J=8.7Hz,2H),1.61(Nujol))1607,1519,1480,1177,1151,1079,970,875,708,1
1.201	¹ HNMR(CDCl ₃) δ 2.38(s,3H),2.67(s,3H),3.14(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.15(s,2H),6.84(s,1H),7.14(d,J=8.4Hz,1H),7.17(brd,J=7.5Hz,1H),7.23-7.30(m,3H),7.34(dd,J=8.4,1.8Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=1.8Hz,1H),7.68(d,J=8.7Hz,2H) ¹ IR(Nujol)1606,1519,1482,1180,1150,1078,1011,979,976,790,70-1
1.202	¹ HNMR(CDCl ₃) δ 2.30(s,3H),2.38(s,6H),2.74(s,3H),2.94(s,3H),3.21(s,3H),3.57(s,3H),3.79(s,3H),5.13(s,2H),6.85(s,1H),6.91(brs,2H),7.37(d,J=8.7Hz,2H),7.40(brs,2H),7.41(dd,J=8.4,1.8Hz,1H),7.69(d,J=8.7Hz,2H) IR(CHCl ₃)1610,1518,1477,1370,1177,1149,1082,970,873 _{cm} -1
1.203	¹ HNMR(CDCl ₃) δ 2.34(s,6H),2.66(s,3H),3.15(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.12(s,2H),6.84(s,1H),6.99(brs,1H),7.0 6(brs,2H),7.14(d,J=8.4Hz,1H),7.33(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.40(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H) IR(Nujol)1607,1519,1480,1178,1152,1097,1014,969,876,824,797cm ⁻¹

Table 46

	HNMR(CDC13) & 2.72(s,3H),3.16(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),3.94(s,3H),5.25(s,2H),6.84(s,1H),7.11(d,1=8.4Hz)
1.904	1H), 7.34(dd, J=8.4, 2.1Hz, 1H), 7.38(d, J=8.7Hz, 2H), 7.42(d, J=2.1Hz, 1H), 7.55(d, J=8.4Hz, 2H), 7.68(d, J=8.4Hz, 2H), 8.09(d, J=8.4Hz, 2H), 7.55(d, J=8.4Hz, 2H), 7.55(d, J=8.4Hz, 2H), 8.09(d, J=8.4Hz, 2H), 9.09(d, J=8
107-1	$H_{z,2H}$
	IR(Nujol)1719,1610,1519,1480,1177,1151,1119,1080,1016,969,875,798cm ⁻¹
	m.p.153-157°C
	¹ HNMR(CDCl ₃) δ 2.70(s, 3H), 3.16(s, 3H), 3.21(s, 3H), 3.56(s, 3H), 3.78(s, 3H), 5.13(s, 2H), 6.41(dd, J=3.3.2.0Hz.1H), 6.49(d.J=3.3.2.0Hz.1H), 6.49(d.J=3.3.2.0Hz.1Hz), 6.49(d.J=3.3.2.0Hz), 6.49(d.J=3.2.0Hz), 6.4
I.205	Hz,1H),6.84(s,1H),7.20(d,J=8.7Hz,1H),7.37(dd,J=8.7,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.46(d,J=9.0Hz,1H),7.41(d,J=2.1Hz,1H),7.46(d,J=9.0Hz,1H),7.41(d,J=3.1Hz,1H),7.41(d,J=
	H),7.68(d,J=8.7Hz,2H)
·	IR(Nujol)1605,1518,1482,1375,1361,1180,1150,1079,1013,977,876,814.800cm ⁻¹
	1HNMR(CDCl ₃) & 2.41(s,3H),3.46(s,3H),3.75(s,3H),5.13(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.99(dd,J=8.7Hz,2H)
1.206	(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.22-7.34(m,3H),7.40(brd,J=7.8Hz,1H),7.53(d,J=8.7Hz,2H)
	IR(Nujol)3471,3436,3339,1612,1581,1523,1489,1266,1245,1228,1185,1110,1070,1011,998,945,781,228,1185,1110,1070,1011,998,945,781,228,1185,1110,1070,1011,998,945,781,228,1185,1110,1070,1011,998,945,781,228,1185,1110,1070,1011,998,945,128,1185,1110,1070,1011,998,945,128,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1286,1245,1288,1185,1110,1070,1011,998,945,1286,1245,1288,1185,1110,1070,1011,988,945,1286,1245,1286,1245,1286,1245,1286,1245,1286,1246,1286,1246,1286,1286,1286,1286,1286,1286,1286,128
	¹ HNMR(CDCl ₃) & 2.40(s, 3H), 3.45(s, 3H), 3.75(s, 3H), 5.11(s, 2H), 6.45(s, 1H), 6.91(d, J=8.7Hz, 2H), 6.95(dd, J=8.4 + 1.8Hz, 1H), 7.01
1.207	(d,J=8.4Hz,1H),7.09(d,J=1.8Hz,1H),7.19(brd,J=7.5Hz,1H),7.22-7.34(m,3H),7.53(d,J=8.7Hz,2H)
	IR(Nujol)3410,1611,1589,1523,1489,1246,1225,1114,1071,1011,939,824.814.778cm-1
	m.p.230-236°C
1.208	"HNMR(DMSO-d ₆) & 2.25(s,3H),2.35(s,6H),3.31(s,3H),3.65(s,3H),5.00(s,2H),6.39(s,1H),6.69(dd,J=8.4.1.8Hz,1H),6.76(d,J=1
} i	.8Hz,1H),6.84(d,J=8.7Hz,1H),6.90(brs,2H),7.06(d,J=8.4Hz,3H),7.44(d,J=8.7Hz,2H)
	IR(Nujol)3475,3361,1609,1579,1521,1260,1244,1110,1071,1012,988,822.782cm-1
	1HNMR(CDCl ₃) & 2.35(s,6H), 3.45(s,3H), 3.75(s,3H), 5.07(s,2H), 6.45(s,1H), 6.91(d,J=8.7Hz.2H), 6.95(dd,J=8.418Hz,1H), 7.01
1.209	(brs, 1H), 7.02(d, J=8.4Hz, 1H), 7.06(brs, 2H), 7.08(d, J=1.8Hz, 1H), 7.53(d, J=8.7Hz, 2H)
	IR(Nujol)3410,1610,1588,1523,1489,1248,1225,1114,1071,1011,940,825,808 cm ⁻¹

Table 47

1-210 2.1H), 6.94(d.J=8.4Hz,1H), 7.45(d.J=8.7Hz,2H), 7.60(d.J=8.4Hz,2H), 8.04(d.J=8.4Hz,2H) IR(Niyol)3384,1694,1612,1591,1523,1488,1249,1113,1071,1013,940,826,812,765cm ⁻¹ IR(Niyol)3341,1612,1591,1523,1483,1248,1214,111,7.08(d.J=8.4Hz,1H), 6.47(d.J=3.3Hz,1H), 6.92(d.J=8.7Hz,2H) IR(Niyol)33410,1612,1589,1523,1489,1248,1226,1113,1071,1011,393,815,747cm ⁻¹ IR(Niyol)33410,1612,1589,1523,1489,1248,1226,1113,1071,1011,393,815,747cm ⁻¹ IR(Niyol)33410,1612,1589,1523,1489,1248,1226,1113,1071,1011,393,815,74cm,2H), 7.54(d.J=8.7Hz,2H) IR(Niyol)33410,1612,1589,1523,1489,1248,1226,1113,1071,1011,393,815,747cm ⁻¹ IR(Rby3392,2960,2934,1610,1883,1568,1523,1492,1465,1406,1259,1241,1224,1198,1118,1071,824,812cm ⁻¹ IR(Rby3392,2960,2934,1610,1883,1568,1523,1492,1465,1466,1259,1241,1224,1198,1118,1071,824,812cm ⁻¹ IR(Rby3392,2960,2934,1610,1883,1568,1523,1492,1465,1466,1259,1241,1224,1198,1118,1071,824,812cm ⁻¹ IR(Rby3392,2960,2934,1610,1883,1568,1523,1492,1465,1466,1259,1241,1224,1198,1118,1071,824,812cm ⁻¹ IR(Rby3349,2929,1612,168,148,1365,1177,1151,1079,844,1118,1070,823,807cm ⁻¹ IR(Rby3349,2929,1612,168,1418,1365,1177,1151,1079,844,2113,1328,1313,3216,3H),3.26(s.3H),3.78(s,2H),5.36(s,3H),3.78(s,3H),3.78(s,3H),3.28(s,3H)	٠	1HNMR(CD ₃ OD) δ 3.37(s,3H),3.67(s,3H),5.25(s,2H),6.43(s,1H),6.77(dd,J=8.4,2.1Hz.1H),6.84(d,J=8.7Hz.2H),6.89(d,J=9.1H)
	1.210	z,1H),6.94(d,J=8.4Hz,1H),7.45(d,J=8.7Hz,2H),7.60(d,J=8.4Hz,2H),8.04(d,J=8.4Hz,2H)
		IR(Nujol)3384,1694,1612,1591,1523,1488,1249,1113,1071,1013,940,826,812.765cm ⁻¹
		"HNMR(CDCl ₃) & 3.45(s,3H),3.74(s,3H),5.09(s,3H),6.41(dd,J=3.3,1.8Hz,1H),6.45(s,1H),6.47(d,J=3.3Hz,1H),6.92(d,J=8.7Hz,
	1.211	,2H),6.97(dd,J=8.4,2.1Hz,1H),7.07(d,J=2.1Hz,1H),7.08(d,J=8.4Hz,1H),7.48(dd,J=1.8.1.0Hz,1H),7.54(d,J=8.7Hz,9H)
		IR(Nujol)3410,1612,1589,1523,1489,1248,1226,1113,1071,1011,939,815,747cm ⁻¹
		m.p.156-158°C
	1.919	"HNMR(CDCl ₃) δ 1.06(t,J=7.4Hz,3H),1.75(s,3H),2.10(q,J=7.4Hz,2H),3.46(s,3H),3.75(s,3H),4.64(d.J=7.0Hz,2H),5.52(t.J=7.0Hz,1H)
	3	0Hz,1H),6.45(s,1H),6.92(d,J=8.6Hz,2H),6.96(br.s,2H),7.06(br.s,1H),7.53(d,J=8.6Hz,2H)
	_	$IR(KBr)3392,2960,2934,1610,1583,1568,1523,1492,1465,1406,1259,1241,1224,1198,1118,1071,824,812cm^{-1}$
		m.p.175-177°C
	1.913	¹ HNMR(CDCl ₃) δ 1.77(s,3H),1.80(s,6H),3.46(s,3H),3.75(s,3H),4.59(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.96(br.s.2H),7.06(
) 	br.s,1H),7.53(d,J=8.7Hz,2H)
		¹ HNMR(CDCl ₃) δ 1.66(tt,J=6.6,6.6Hz,2H),1.74(tt,J=6.6,6.6Hz,2H),2.32(t,J=6.6Hz,2H),2.34(t,J=6.6Hz,2H),2.71(8.3H),3.21(
1H),7.37(d,J=8.7Hz,2H),7.38(IR(KBr)2941,1610,1518,1418 'HNMR(CDCl ₃) & 1.57.1.72(n s,1H),6.84(s,1H),7.09(d,J=8.4 IR(KBr)2936,1610,1518,1481	1.214	s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.62(d,J=6.9Hz,2H),5.60(m,1H),6.84(s,1H),7.09(d,J=8.7Hz,1H),7.34(dd,J=8.7.91Hz,
	: 1	1H),7.37(d,J=8.7Hz,2H),7.38(d,J=2.1Hz,1H),7.67(d,J=8.7Hz,2H)
		IR(KBr)2941,1610,1518,1418,1365,1177,1151,1079,847,818cm ⁻¹
		1HNMR(CDCl ₃) & 1.57-1.72(m,4H),2.05-2.13(m,4H),2.70(s,3H),3.21(s,3H),3.23(s,3H),3.56(s,3H),3.78(s,3H),4.48(s,2H),5.86(
IR(KBr)2936,1610,1518,1481,1365,1177,1151,1079,818cm ⁻¹	1.215	s,1H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.34(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.38(d,J=2.1Hz,1H),7.67(d,J=8.7Hz,9H)
		IR(KBr)2936,1610,1518,1481,1365,1177,1151,1079,818cm ⁻¹

Table 48

	"HNMR(CDCl:3) & 1.74(d,J=6.6Hz,3H),2.54(d,J=2.1Hz,1H),2.70(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),5.00(dd,J
1.216	=6.6,2.1Hz,1H),6.84(s,1H),7.28(d,J=8.7Hz,1H),7.36(dd,J=8.7,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.68(d,J=
213	8.7Hz,2H)
	IR(KBr)3282,3023,2940,1609,1519,1481,1365,1177,1151,1079,970,815cm ⁻¹
	m.p.80.85°C
1 917	¹ HNMR(CDCl ₃) δ 1.62-1.77(m,4H),2.25-2.39(m,4H),3.46(s,3H),3.75(s,3H),4.60(d,J=7.0Hz,2H),5.63(m,1H),6.45(s,1H),6.92(
177.1	d,J=8.6Hz,1H),6.95(br.s,2H),7.06(br.s,1H),7.68(d,J=8.6Hz,2H)
	IR(KBr)3282,3023,2940,1609,1519,1481,1365,1177,1151,1079,970,815cm ⁻¹
	foam
1 910	¹ HNMR(CDCl ₃) δ 3.45(s,3H),3.77(s,3H),5.16(s,2H),5.69(brs,1H),5.86(s,1H),6.47(s,1H),6.95(dd,J=2.1,8.4Hz,1H),7.04(d,J=8.
017:1	4Hz,1H),7.08(d,J=2.1Hz,1H),7.34-7.65(m,7H),7.83-7.92(m,2H)
	IR(CHCl ₃)3530,3022,1614,1588,1500,1485,1463,1405,1326,1290,1249,1168,1130,1117,1073,1011cm ⁻¹
	foam
1.919	¹ HNMR(CDCl ₃) δ 1.69(s, 3H), 1.74(s, 3H), 2.51-2.59(m, 2H), 2.74(s, 3H), 3.22(s, 3H), 3.55(s, 3H), 3.79(s, 3H), 4.07(t, J=6.6Hz, 2H), 5.
217-1	21(m,1H),6.85(s,1H),7.08(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.39(d,J=2.1Hz,1H),7.55-7.69(m,2H),7.81-7.87(m,2H)
	IR(CHCl ₃)3024,1609,1519,1481,1467,1396,1369,1321,1272,1179,1122,1082,1015cm ⁻¹
	m.p.124-126°C
1.990	'HNMR(CDCl ₃) δ 1.69(s,3H),1.75(s,3H),2.50-2.57(m,2H),3.46(s,3H),3.76(s,3H),4.07(t,J=6.9Hz,2H),5.22(m,1H),5.69(brs,1H
3),5.84(s,1H),6.46(s,1H),6.93-7.05(m,3H),7.55-7.65(m,2H),7.82-7.91(m,2H).
	IR(KBr)3406,2935,1587,1519,1501,1488,1459,1359,1323,1304,1291,1274,1223,1170,1126,1113,1075,1018cm ⁻¹

Table 49

	m.p.187.189°C
1001	"HNMR(CDCl ₃) δ 2.33(s,3H),2.69(s,3H),3.21(s,3H),3.24(s,3H),3.55(s,3H),3.77(s,3H),4.17(s,9H),6.84(s,1H),7.198.7.95(A.D.
1-22.1	J=8.7Hz,4H),7.31(dd,J=8.1Hz,J=1.5Hz,1H),7.38&7.67(ABq,J=8.7Hz,4H),7.42(d,J=8.1Hz,1H),7.46(d,J=1.5Hz,1H) IR(KBr)1512.1474.1417.1361.1356.1343.1177.1149.1089.1054.1019.052.051.052.051.052.051.051.051.051.051.051.051.051.051.051
	m.p.107-112°C
066 1	1HNMR(CDCl ₃) δ 2.73(s,3H),3.22(s,3H),3.28(s,3H),3.55(s,3H),3.77(s,3H),4.34(s.2H),6.84(s.1H) 7 19(m.1H) 7 30(dd.1=8.1H)
777-1	z,J=1.8Hz,1H),7.34-7.41(m,3H),7.46(d,J=1.8Hz,1H),7.49(d,J=8.1Hz,1H),7.62-7.69(m,3H),8.55(m,1H)
	IR(KBr)1474,1389,1364,1179,1151,1081,937,873,813,797,523cm ⁻¹
	m.p.212-214°C
1,993	¹ HNMR(CDCl ₃ +CD ₃ OD) δ 3.45(s, 3H), 3.74(s, 3H), 4.13(s, 2H), 6.45(s, 1H), 6.90-6.96(m. 3H), 7.12(d.J=1.8Hz, 1H), 7.18.7.96(m. 3
077.1	H),7.48-7.54(m,3H),7.68(m,1H),8.63(m,1H)
	IR(KBr)3504,3272,1612,1596,1574,1521,1492,1463,1436,1405,1362,1310,1265,1229,1179,1116,1083,1059,1017,888,1
	m.p.199-200°C
	1HNMR(CDCl ₃) & 1.46(d,J=0.9Hz,3H),1.77(s,3H),3.44(s,3H),3.74(s,3H),3.90(m.2H) 5.25(m.1H) 6.04(hrs.1H) 6.45(s.1H) 6.0
I-224	3&7.53(ABq,J=8.7Hz,4H),7.00(m,2H),7.05(m,1H)
	IR(KBr)3404,2999,2932,1612,1595,1522,1483,1454,1432,1401,1376,1357,1271,1223,1119,1080,1055,1015,974,938,829,81
	m.p.181-183℃
	¹ HNMR(CDCl ₃) δ 1.37(s,9H),3.45(s,3H),3.75(s,3H),4.93(brs,1H),6.00(s,1H),6.46(s,1H),6.93&7.54(ABq,J=8.7Hz,4H),6.99(s,1H)
I-225	1H),7.01(dd,J=8.4Hz,J=1.5Hz,1H),7.16(d,J=1.5Hz,1H),7.49(d,J=8.4Hz,1H)
	IR(KBr)3495,3412,2959,2931,1610,1568,1552,1521,1499,1477,1459,1400,1364,1319,1270,1227,1192,1161,1116,1102,1090
	,1052,1019,942,833,817,588cm ⁻¹

Table 50

	m.p.154-156°C
1.226	¹ HNMR(CDCl ₃) δ 2.33(s,3H),3.45(s,3H),3.75(s,3H),3.90(s,2H),4.68(s,1H),5.97(s,1H),6.45(s,1H),6.60(s,1H),6.90·6.98(m,3H), 7.10(s,5H),7.41(d,J=8.1Hz,1H),7.53(m,2H) IR(KBr)3462,3368,1611,1550,1521,1499,1472,1455,1437,1401,1362,1321,1293,1267,1229,1187,1174,1164,1118,1077,1050,1011,821cm ⁻¹
1-227	m.p.172-174°C 'HNMR(CDCl ₃) & 1.38(d,J=1.2Hz,3H),1.76(s,3H),3.44(s,3H),3.75(s,3H),3.87(d,J=7.8Hz,2H),5.08(brs,1H),5.26(m,1H),6.08(s '1H),6.45(s,1H),6.94&7.53(ABq,J=8.7Hz,4H),7.11-7.14(m,2H),7.62(d,J=8.7Hz,1H),8.87(s,1H) IR(KBr)3412,1613,1520,1478,1458,1443,1404,1360,1346,1950,1950,1950,1950,1950,1950,1950,1950
1.228	m.p.173-175°C "HNMR(CDCl ₃) δ 1.69(s,3H),1.74(s,3H),2.10(s,3H),2.50-2.61(m,2H),3.20(s,3H),3.21(s,3H),3.37(s,3H),3.71(s,3H),4.08(t,J=6. 8Hz,2H),5.21-5.25(m,1H),6.73(s,1H),7.03-7.18(m,2H),7.23-7.25(m,2H),7.37(d,J=8.6Hz,2H),7.69(d,J=8.8Hz,2H) IR(KBr)3600-3200(br),3100-2800(br),1610-1527-1523-1477-1439-1965-1940-1966-1966-1966-1966-1966-1966-1966-196
I-229	m.p.148-150°C HNMR(CDCl ₃) & 1.70(s,3H),1.77(s,3H),2.09(s,3H),2.48-2.62(m,2H),3.38(s,3H),3.73(s,3H),4.09(t,J=7.0Hz,2H),4.84(br,1H), 5.19-5.22(m,1H),5.70(s,1H),6.71-6.96(m,5H),7.55(d,J=8.2Hz,2H) IR(KBr)3700-3200(br),3100-2800(br),1612,1584,1560,1448,1428,1390,1339,1315,1284,1246,1173,1160,1123,1018,999cm ⁻¹
1.230	m.p.194-195°C 'HNMR(CDCl ₃) & 2.10(s,3H),2.39(s,3H),3.10(s,3H),3.21(s,3H),3.71(s,3H),3.71(s,3H),5.13(s,2H),6.73(s,1H),7.14-7.18(m,8H), 7.69(d,J=9.0Hz,2H) IR(KBr)3600-3200(br),3100-2800(br),1516,1475,1360,1332,1292,1266,1228,1199,1174,1151,1119,1098,1084,1005,968cm ⁻

Table 51

I.231	m.p.178-180°C ¹ HNMR(CDCl ₃) δ 2.09(s,3H),2.40(s,3H),3.37(s,3H),3.72(s,3H),4.97(brs,1H),5.10(s,2H),5.67(br,1H),6.70-6.75(m,2H),6.86-7. 03(m,3H),7.22-7.26(m,2H),7.32-7.34(m,2H),7.54(d,J=8.2Hz,2H) IR(KBr)3600-3200(br),3100-2800(br),1611,1519,1479,1463,1388,1339,1314,1286,1258,1246,1225,1128,1098,1077,1007cm
1.232	m.p.177-179°C ¹ HNMR(CDCl ₃) & 2.54(s,3H),2.69(s,3H),3.13(s,3H),3.54(s,3H),3.77(s,3H),5.19(s,2H),6.85(s,1H),7.15(d,J=8.4Hz,2H),7.30-7. ⁴ 9(m,9H),7.53-7.59(m,2H) ¹ 1R(CHCl ₃)1516,1476,1368,1266,1176,1118,1077,1080,1013,970,876,890cm ⁻¹
I-233	
I-234	¹ HNMR(CDCl ₃) & 1.76(s,3H),1.81(s,3H),2.73(s,3H),3.24(s,3H),3.53(s,3H),3.79(s,3H),3.96(s,3H),4.64(d,J=6.9Hz,2H),5.49(t,J=6.9Hz,1H),6.87(s,1H),7.09(d,J=8.4Hz,1H),7.35(d.d,J=8.4&2.1Hz,1H),7.39(d,J=2.1Hz,1H),7.71(d,J=8.4Hz,2H),8.13(d,J=8.4Hz,2H)
1.235	¹ HNMR(CDCl ₃) & 2.69(s,3H),3.14(s,3H),3.55(s,3H),3.80(s,3H),5.20(s,2H),6.89(s,1H),7.16(d,J=9.0Hz,1H),7.34(d,J=2.1Hz,1 H),7.36-7.51(m,6H),7.75(d,J=8.4Hz,2H),8.23(d,J=8.4Hz,2H) IR(KBr)3427,1724,1685,1606,1509,1481,1369,1272,1235,1179,1120,1084,1017cm ⁻¹
1-236	¹ HNMR(CDCl ₃) δ 3.46(s,3H),3.77(s,3H),5.16(s,3H),6.50(s,3H),6.96(dd,J=84&2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.09(d,J=2.1 Hz,1H),7.34-7.50(m,5H),7.75(d,J=8.1Hz,2H),8.17(d,J=8.1Hz,2H)

Table 52

	¹ HNMR(CDCl ₃) δ 3.44(s, 3H), 3.76(s, 3H), 3.96(s, 3H), 5.16(s, 2H), 5.69(s, 1H), 5.89(s, 1H), 6.49(s, 1H), 6.96(d, d, 1=8, 4&2, 1H ₂ , 1H)
1.237	7.03(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.32-7.50(m,5H),7.73(d,J=8.4Hz,2H),8.13(d,J=8.4Hz,2H)
	IR(KBr)3497,3443,1708,1608,1585,1487,1460,1443,1395,1281,1113,1068,1008cm ⁻¹
	¹ HNMR(CDCl ₃) δ 2.69(s, 3H), 3.13(s, 3H), 3.53(s, 3H), 3.79(s, 3H), 3.96(s, 3H), 5.19(s, 2H), 6.87(s, 1H), 7.15(d, J=9.0Hz, 1H), 7.31.7
1.238	50(m,7H),7.71(d,J=8.4Hz,2H),8.13(d,J=8.4Hz,2H)
	IR(KBr)1719, 1608, 1481, 1366, 1278, 1118, 1080, 1017cm ⁻¹
	¹ HNMR(CDCl ₃) δ 2.38(s,3H),2.68(s,3H),3.12(s,3H),3.53(s,3H),3.79(s,3H),3.96(s,3H),5.14(s,2H),6.87(s,1H),7.15(d,1=8.7Hz)
1.930	1H), 7.21(d, J=8.4Hz, 2H), 7.34(d, J=8.4Hz, 2H), 7.36(d, J=8.7Hz, 1H), 7.40(d, J=2.1Hz, 1H), 7.71(d, J=8.7Hz, 2H), 8.13(d, J=8.4Hz, 9.1)
007-1	(H
	$\overline{1R(\mathrm{KBr})1718,1607,1519,1481,1355,1280,1232,1182,1121,1079,1018\mathrm{cm}^{-1}}$
	1HNMR(CDCl ₃) & 2.70(s, 3H), 3.03(s, 3H), 3.12(s, 3H), 3.55(s, 3H), 3.77(s, 3H), 5.18(s, 2H), 6.78-6.89(broad, 1H), 6.86(s, 1H), 7.14(d)
I-240	J=8.4Hz, 1H),7.31-7.49(m,8H),7.55(d,J=8.4Hz,2H)
	IR(KBr)1604,1526,1483,1395,1374,1360,1292,1231,1177,1119,1078,1014cm ⁻¹
	1HNMR(CDCl3) Ø 2.37(s,3H),2.69(s,3H),3.05(s,3H),3.12(s,3H),3.55(s,3H),3.77(s,3H),5.14(s,2H),6.85(s,1H),6.81-6.91(broad
I-241	2H),7.14(d,J=8.4Hz,1H),7.21(d,J=8.1Hz,1H),7.34(d,J=8.1Hz,2H),7.40(d,J=2.1Hz,1H),7.56(d,J=8.4Hz,9H)
	IR(KBr)1605,1529,1484,1396,1356,1275,1233,1178,1121,1078,1016cm ⁻¹
	1HNMR(CDCl ₃) § 1.76(s,3H), 1.81(s,3H), 2.73(s,3H), 3.03(s,6H), 3.22(s,3H), 3.55(s,3H), 3.77(s,3H), 4.63(d, J=6,6Hz,2H), 5.49(t, J)
1.949	=6.6Hz,1H),6.75-6.91(broad,2H),6.86(s,1H),7.08(d,J=8.7Hz,1H),7.34(d,J=8.7&2.1Hz,1H),7.34(d,G,J=8.7&2.1Hz,1H),7.39(d,G,J=8.7&2.1Hz,1H),7.34(d,G,J=8.7&2.1Hz,1H),7.34(d,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G,G
757.1	7Hz,1H)
	IR(KBr)1609,1529,1482,1363,1235,1178,1117,1078,1013cm ⁻¹
I-243	IR(KBr)3409,1608,1509,1464,1367,1230,1175,1149,1079,1018cm ⁻¹

Table 53

	THINIMIN DOLLAR OF THE PARTY OF
	THINIMIK(CDCES) 0 1.72(s, 3H), 1.76(s, 3H), 2.55(m, 2H), 3.22(s, 3H), 3.45(s, 3H), 3.72(s, 3H), 4.07(d, J=6.6Hz, 2H), 4.46(d, J=10.5Hz,
1.944	1H), 4.51(d, J=10.5Hz, 1H), 4.66(d, J=10.5Hz, 1H), 4.75(d, J=10.5Hz, 1H), 5.24(brs, 1H), 6.84(s, 1H), 6.95(d, J=8.7Hz, 1H), 7.02(s, 1H)
),7.21(d,J=8.7Hz,1H),7.39(d,J=9.0Hz,2H)7.71(d,J=9.0Hz,2H)
	IR(KBr)3307,1609,1509,1465,1364,1235,1180,1152,1082,1021cm ⁻¹
	m.p.182-184°C
I.245	¹ HNMR(CDCl ₃) δ 2.42(s,3H),2.70(s,3H),3.13(s,3H),3.53(s,3H),3.77(s,3H),5.19(s,2H),6.86(s,1H),7.13.7 53(m,12H)
	IR(KBr)3434,3030,2937,1605,1522,1483,1366,1274,1235,1176,1119,1086,1011cm ⁻¹
	"HNMR(CDCl ₃) & 2.58(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),3.91(s,3H),5.26(m,2H),6.84(s,1H),7.12(d,J=9.0Hz,1H),7.27.7
I.246	54(m,8H),7.60(d,J=8.7Hz,2H),7.90(d,J=2.1Hz,1H)
	IR(KBr)1728,1699,1605,1513,1480,1362,1239,1175,1150,1083,1017cm ⁻¹
1.247	IR(KBr)1729,1607,1512,1479,1366,1234,1177,1151,1079,1015cm ⁻¹
	¹ H NMR (CDCl ₃) & 1.75 (s, 3H), 1.79 (s, 3H), 2.57 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 3.89 (s, 3H), 4.63 (d, 1-
I-248	6.6Hz, 2H), 5.49 - 5.58 (m, 1H), 6.85 (s, 1H), 6.93 - 7.00 (m, 3H), 7.38 (d, J = 8.7Hz, 2H), 7.70 (d, J = 8.7Hz, 9H)
	IR(KBr)1603, 1518, 1482, 1365, 1239, 1176, 1150, 1078cm ⁻¹
	foam
1.949	¹ HNMR(CDCl ₃) δ 2.30(br, 1H), 2.76-2.82(m, 2H), 3.64-3.68(m, 2H)3.87(s, 1H), 5.14(s, 2H), 5.70(s, 1H), 6.70(dd, J=2, 1, 8, 4H ₂ , 1H), 6.
2	.78(s,1H),6.84(d,J=1.8Hz,1H),6.97.7.01(m,3H),7.37.7.49(m,5H),7.56-7.61(m,2H)
	IR(KBr)3600-2800(br),1608,1583,1517,1464,1387,1287,1247,1225,1178,1082,1015cm ⁻¹
	m.p.104-105°C
1.250	1 HNMR(CDCl ₃) δ 0.76(t,J=7.5Hz,3H), 1.44-1.54(m,2H), 3.61(s,3H), 3.71(t,J=6.6Hz,2H), 3.74(s,3H), 3.87(s,3H) 5.16(s,2H) 5.63
)) !	(s,1H),6.66(s,1H),6.90(dd,J=2.1,8.4Hz,1H),6.96-7.01(m,4H),7.04(d,J=1.8Hz,1H),7.37.7.48(m,5H),7.51.7.56(m,9H)
	IR(KBr)3600-2800(br), 1608, 1593, 1518, 1474, 1462, 1379, 1294, 1251, 1226, 1183, 1109, 1078, 1040, 1008cm - 1
	1110001101010101010101010101010101010101

	m.p.103-105°C
	"HNMR(CDCl ₃) & 0.78(t,J=7.2Hz,3H),1.15-1.27(m,2H),1.43-1.51(m,2H),3.61(s,3H),3.73-3.77(m,2H),3.74(s,3H),3.87(s,3H),5.
1.251	.16(s,2H),5.63(s,1H),6.65(s,1H),6.90(dd,J=2.1,8.1Hz,1H),6.96-7.01(m,3H).7.04(d,J=2.1Hz,1H).7.37.7.48(m,5H).7.51.7.51.7
	(HZ,
	1R(KBr)3600-2800(br),1607,1518,1467,1375,1288,1251,1179,1113,1084,1020,1008cm ⁻¹
	m.p.111.5-112.5°C
1.989	1HNMR(CDCl ₃) & 0.78(t, J=7.5Hz, 3H), 1.15-1.27(m, 2H), 1.41-1.50(m, 2H), 3.10(s. 3H), 3.61(s. 3H), 3.73-3.78(m, 9H), 3.74(c. 6H), 5.10(s. 3H)
707.1	18(s,2H),6.66(s,1H),6.96-7.01(m,2H),7.10(d,J=8.7Hz,1H),7.26-7.55(m,9H)
	IR(KBr)3600-2800(br), 1609, 1518, 1464, 1440, 1375, 1355, 1289, 1969, 1181, 1170, 1107, 1080, 1018, 118
	1HNMR(CDCl ₃) & 1.76(s,3H), 1.82(s,3H), 3.45(s,3H), 3.76(s,3H), 4.62(d, J=8.4Hz,2H), 5.54(t, J=8.4Hz, 1H), 6.49(s, 1H), 6.91, 6.90
I-253	(m,2H),7.05(d,J=1.5Hz),7.74(d,J=8.7Hz,2H),8.15(d,J=8.7Hz,2H)
	IR(KBr)3474,1687,1607,1509,1417,1397,1316,1287,1240,1109,1071,1006cm ⁻¹
	1HNMR(CDCl ₃) § 2.39(s,3H),3.45(s,3H),3.76(s,3H),5.11(s,2H),6.49(s,1H),6.94(dd,1=8.4&1.8H;1H),7.04(d.1-8.4H;1H),7.04
1.254	6(d,J=1.8Hz),7.19-7.38(m,4H),7.73(d,J=8.4Hz,2H),8.14(d,J=8.4Hz,2H)
	IR(KBr)3549,3466,1668,1603,1518,1489,1465,1449,1421,1397,1372,1288,1236,1186,1117,1074,1017,1
	1HNMR(CDCl ₃) & 1.76(s,3H), 1.82(s,3H), 3.02(s,6H), 3.48(s,3H), 3.74(s,3H), 4.61(d,J=7.2Hz.2H), 5.53(t,J=7.2Hz,1H), 5.66(s,1H)
1.255	_
	IR(KBr)3535,3494,3452,1606,1526,1487,1406,1357,1288,1242,1195,1112cm ⁻¹
	1HNMR(CDCl ₃) δ 2.39(s,3H),3.02(s,6H),3.48(s,3H),3.74(s,3H),5.10(s,2H),5.66(s,1H),5.93(s,1H),6.47(s,1H),6.82(d,1=8.4Hz)
1.956	2H), 6.96(dd, J=8.1&1.8Hz, 1H), 7.02(d, J=8.1Hz, 1H), 7.08(d, J=1.8Hz, 1H), 7.23(d, J=7.8Hz, 2H), 7.34(d, J=7.8Hz, 2H), 7.35(d, J=8.18Hz, 2H), 7.
	4Hz,2H)
	IR(KBr)3536,3379,1610,1586,1528,1489,1460,1443,1361,1288,1250,1225,1195,1117,1079,1008cm-1
	, , , , , , , , , , , , , , , , , , ,

	1HNMR(CDCl ₃) δ 1.71(s,3H),1.76(s,3H),2.49-2.60(m,2H),3.44(s,3H),3.70(s,3H),4.06(t,J=6.3Hz,2H) 4.48(d,J=6.0Hz,2H) 4.7
1.257	1(d,J=8.7Hz,2H),5.23(t,J=8.7Hz,1H),5.37(broads,1H),6.84(s,1H),6.91-6.97(m,1H),6.92(d,J=8.4Hz,2H),7.18-7.23(m.2H),7.52
2	(d,J=8.7Hz,2H)
	IR(KBr)3398,1612,1518,1465,1389,1232,1174,1131,1101,1081,1023cm ⁻¹
	1HNMR(CDCl ₃) & :3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),4.76(s,2H), 5.15(s,2H),6.94(s,1H),6.99(d,J=8.7Hz,1H),7.23.
I-258	7.49 (m, 9H), 7.71(d,J=8.7Hz,2H)
	IR(KBr)3497,1738,1721,1607,1509,1469,1362,1242,1152,1056,1017cm ⁻¹
	foam
1.950	1HNMR(CDCl ₃) δ 2.35(s,6H),2.73(s,3H),2.79(t,J=5.7Hz,2H),3.21(s,3H),3.31(s,3H),3.56(s,3H),3.78(s,3H),4.19(t,J=5.7Hz,2H
207),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.34-7.41(m,4H),7.66-7.71(m,2H)
	IR(KBr)3600-2700(br),1519,1481,1365,1273,1200,1177,1151,1120,1079,1015cm ⁻¹
	foam
1.960	1 HNMR(CDCl ₃ +CD ₃ OD) δ 2.71(t,J=5.1Hz,2H),3.46(s,6H),3.73(s,6H),4.11(t,J=5.1Hz,2H),6.44(s.1H),6.87.6.99(m.4H),7.04(d.1H),7.04(d.1H),6.87.6.99(m.4H),7.04(d.1H),7.04(d.
0.7	,J=2.1Hz,1H),7.49-7.53(m,2H)
	$IR(KBr)3600-2200(br), 1607, 1583, 1519, 1475, 1407, 1390, 1275, 1252, 1226, 1114, 1062cm^{-1}$
	m.p.85-87°C
1.96.1	1HNMR(CDCl ₃) δ 3.49(s,3H),3.75(s,3H),5.15(s,2H),5.23(brs,1H),5.68(brs,1H),5.89(s,1H),6.43(s,1H),6.95(dd,1=8 3 2 1Hz 1
	H),7.03(d,J=8.3Hz,1H),7.08(d,J=2.1Hz,1H),7.08(t,J=8.7Hz,1H),7.33(ddd,J=8.7.2.1.1.2Hz,1H),7.37.7.47(m,6H)
	IR(KBr)3410,1525,1488,1284,1248,1102,1010,759.704cm ⁻¹

Table 56

	m.p.138-140°C
	14NMR(CDCl3) & 1.77(s,3H),1.82,(s,3H),3.21(s,3H),3.22(s,3H),3.48(s,3H),3.78(s,3H),4.64(d,J=6.5Hz,2H),5.51(t,J=6.5Hz,1
1.262	H), 7.05(d, J=8.5Hz, 1H), 7.08(s, 1H), 7.14(dd, J=8.5, 2.2Hz, 1H), 7.34(d, J=2.2Hz, 1H), 7.40(d, J=8.7Hz, 2H), 7.69(d, J=8.7Hz, 2H), 10
	.00(s, 1H)
	(xxxx),1050,1014,1410,1001,1040,1210,1239,1110,1101,979,867,845,815cm ⁻¹
	10am 1HNMR(DMSO-ds) & 1.74(s.3H), 1.78(s.3H), 3.39(s.3H), 3.44(s.3H), 9.76(s.9H), 4.66(4.1–6.011–611), 7.46(4.1–7.10
I-263	1H),7.23-7.25(m,3H),7.48(d,J=8.6Hz,2H),7.77(d,J=8.6Hz,2H),13.1(brs.1H)
	IR(KBr)3431,1737,1518,1471,1177,1151,972,864,849cm ⁻¹
	m.p.153.5-155.5°C
1.264	¹ HNMR(CDCl ₃) § 2.58(s,3H),3.52(s,3H),3.77(s,3H),5.21(s,2H),6.83(s,1H),7.04-7.24(m,5H),7.30-7.49(m,5H),7.56-7.65(m,2H
	$\overline{1R(CHCl_3)1607,1520,1481,1412,1368,1298,1267,1131,1080,1012,960,942,907,869.836.812cm^{-1}$
	dp>116°C
1.965	1 HNMR(CDCl ₃ +CD ₃ OD) δ 2.69(s,3H),3.15(s,3H),3.16(s,3H),3.57(s,3H),3.80(s,3H),5.21(s,2H),6.88(s,1H),7.19(d,1=8.4Hz,1H)
007-1),7.34-7.51(m,7H),7.83-7.90(m,2H),8.01-8.07(m,5H)
	IR(KBr)3434,3028,2934,1596,1519,1460,1365,1308,1276,1173,1148,1119,1108.1012.946.841.819cm ⁻¹
	m.p.136·138℃
1.266	¹ HNMR(CDCl ₃) δ 3.43(s,3H),3.75(s,3H),5.19(s,2H),5.98(s,1H),6.44(s,1H),7.04-7.52(m,10H) 7.57-7.65(m,5H)
	IR(CHCl ₃)3496,1612,1521,1488,1454,1412,1391,1313,1267,1157,1113,1069,1010,934,895cm-1

Table 57

	foam
1-267	1HNMR(CDCl3) & 2.38(s,3H),3.10(s,3H),3.21(s,3H),3.41(s,3H),3.67(s,3H),3.77(s,3H),5.11(s,2H),6.93(s,1H),7.09(d,J=8.6Hz,
	$1H), 7.21(d, J=8.2Hz, 2H), 7.27(d, J=2.1Hz, 1H), 7.35(d, J=8.2Hz, 2H), 7.38(d, J=8.9Hz, 2H), 7.70(d, J=8.9Hz, 2H), 7.70(d, J=8.9Hz, 2H), 11R(KBr), 1733, 1518, 1471, 1367, 1297, 1177, 1151, 118, 1059, 971, 862, 815cm^{-1}$
	amorphous
	1HNMR(DMSO-da) & 1.64(s,3H), 1.70(s,3H), 2.44(q,J=7.2Hz,2H), 3.30(s,3H), 3.70(s,3H), 3.93(t,J=7.2Hz,2H), 5.26(t,J=7.2Hz,1
1-268	H),6.64(dd,J=8.6,2.1Hz,1H),6.74(d,J=2.1Hz,1H),6.87(d,J=8.9Hz,2H),6.87(d,J=8.6Hz,1H),6.96(s.1H),7.48(d.J=8.9Hz,2H),8
	84(s,1H),9.59(s,1H),12.8(brs,1H)
	$IR(CHCl_3)3594,3540,1743,1707,1520,1470,1260,1058cm^{-1}$
	m.p.206-208 C(dec.)
	1HNMR(DMSO-d6) § 2.32(s,3H),3.32(s,3H),3.66(s,3H),5.05(s,2H),6.66(dd,J=8.2.2.1Hz.1H),6.79(d,J=2.1Hz.1H) 6.83(s,1H) 6
I-269	.84(d,J=8.6Hz,2H),6.89(d,J=8.2Hz,1H),7.20(d,J=8.0Hz,2H),7.38(d,J=8.0Hz,2H),7.45(d,J=8.6Hz,2H),8.9(d,J=8.6Hz,2H),9.6.89
	12.7(brs,1H)
	$IR(KBr)3413,1710,1612,1591,1520,1471,1377,1227,1083,1059,1013.837.809cm^{-1}$
	foam
1.270	¹ HNMR(CDCl ₃) δ 2.42(s,3H),3.45(s,3H),3.75(s,3H),5.15(s,2H),5.68(s,1H),5.93(s,1H),6.47(s,1H),6.96(dd.J=1.8.8.1Hz.1H),7
2	03(d,J=1.8Hz,1H),7.25-7.28(m,2H),7.35-7.48(m,5H),7.52-7.56(m,2H)
	IR(CHCl ₃)3535,3014,1616,1588,1559,1523,1513,1490,1463,1455,1417,1396,1317,1290,1247,1194,1115,1079,10192,1
	m.p.143·145°C
1.971	1 HNMR(CDCl ₃) δ 2.70(s,3H),3.12(s,3H),3.54(s,3H),3.73(s,3H),3.84(s,3H),5.18(s,2H),6.83(s,1H),7.00-7.07(m,2H),7.146.1=8
1	.4Hz,1H),7.33-7.49(m,9H)
	IR(KBr)3434,2940,1609,1520,1482,1396,1369,1293,1283,1243,1178,1114,1080,1021,1009cm ⁻¹
	117000117

Table 58

	foam
1.979	¹ HNMR(CDCl ₃) δ 3.45(s,3H),3.71(s,3H),3.86(s,3H),5.15(s,2H),5.67(s,1H),5.84(s,1H),6.42(s,1H),6.98(dd,J=1.8.8.4H _{2.1} H),7
7.7	01-7.07(m,2H),7.11(d,J=1.8Hz,1H),7.35-7.45(m,8H)
	IR(CHCl ₃)3534,3024,1617,1587,1517,1503,1483,1462,1409,1290,1247,1226,1215,1122,1104,1072,1013cm-1
	m.p.155-156°C
1.973	1HNMR(CDCl ₃) & 1.76(s,3H), 1.81(s,3H), 2.42(s,3H), 2.73(s,3H), 3.23(s,3H), 3.53(s,3H), 3.77(s,3H), 4.63(d, 1=6.6Hz, 2H) 5.40(m)
1	1H),6.86(s,1H),7.09(d,J=8.4Hz,1H),7.25-7.53(m,6H)
	$1R(KBr)3434,2935,1605,1522,1465,1388,1365,1292,1273,1176,1119,1084,1011cm^{-1}$
	m.p.138-140℃
1 974	1HNMR(CDCl ₃) § 1.76(s,3H), 1.81(s,3H), 2.73(s,3H), 3.22(s,3H), 3.54(s,3H), 3.73(s,3H), 3.84(s,3H), 4.63(d, 1=6.9H ² .9H) 5.50(
#. 17 ₋₁	1H),6.83(s,1H),7.01-7.04(m,2H),7.08(d,J=8.4Hz,1H),7.26(d,J=0.6Hz,1H),7.34-7.43(m,3H)
	IR(KBr)3433,2937,1608,1519,1480,1400,1368.1292.1271.1244.1179.1119.1081.1011,1
	m.p.95-97°C
1 975	'HNMR(CDCl ₃) δ 1.76(s,3H), 1.82(s,3H), 2.42(s,3H), 3.45(s,3H), 3.74(s,3H), 4.61(d.1=6.6Hz, 2H), 5.59(m, 1H), 5.69(s, 1H), 6.47(s, 1H
0 3	1H),6.95-7.07(m,3H),7.25-7.28(m,2H),7.52-7.55(m,2H)
	IR(KBr)3479,2935,1613,1585,1523,1509,1490,1458,1415,1395,1362,1315,1249,1196,1119,1070,10051
	m.p.155-158°C
1.976	1HNMR(CDCl3) & 1.76(d,J=0.9Hz,3H),1.82(d,J=0.9Hz,3H),3.45(s,3H),3.86(s,3H),4.61(d,J=6.9Hz,2H) 5.35(m,1H) 5.68(s,1H)
),5.82(s,1H),6.42(s,1H),6.96-7.09(m,4H),7.35-7.41(m,2H)
	IR(KBr)3428,3005,2952,1613,1583,1517,1505,1487,1464,1451,1411,1387,1359,1317,1989,1945,1141,1525,1613
	101,101,101,1203,1243,1140,1101,1013cm

Table 59

	m.p.173-175°C
	$ HNMR(CDCl_3) \delta - 1.68(s, 3H), 1.74(s, 3H), 2.42(s, 3H), 2.51 \cdot 2.60(m, 2H), 2.75(s, 3H), 3.21(s, 3H), 3.53(s, 3H), 3.76(s, 3H), 4.07(t, J=6) $
1.277	9Hz,2H),5.21(m,1H),6.86(s,1H),7.06(d,J=8.7Hz,1H),7.25-7.28(m,2H),7.35(dd,J=2.1,8.7Hz,1H),7.40(d,J=2.1Hz,1H),7.50-7.5
	3(m,2H)
	IR(KBr)3434,2934,1606,1523,1482,1388,1369,1277,1236,1177,1118,1085,1012cm ⁻¹
	m.p.151-154°C
1 970	¹ HNMR(CDCl ₃) & 1.69(s,3H), 1.74(d,J=0.9Hz,3H), 2.51-2.59(m,2H), 2.75(s,3H), 3.21(s,3H), 3.54(s,3H), 3.73(s,3H), 3.84(s,3H), 4.
0/7-1	07(t,J=6.9Hz,2H),5.21(m,1H),6.83(s,1H),7.00-7.08(m,3H),7.34-7.43(m,4H)
	IR(KBr)3434,2935,1610,1581,1522,1479,1399,1362,1283,1246,1180,1125,1114,1082,1046cm ⁻¹
	m.p.90.92°C
1.970	1 HNMR(CDCl ₃) δ 1.69(s,3H), 1.75(s,3H), 2.42(s,3H), 2.49-2.56(m,2H), 3.45(s,3H), 3.74(s,3H), 4.06(t,J=6.6Hz,2H), 5.22(m,1H), 5
	.67(s,1H),5.90(s,1H),6.46(s,1H),6.94-7.06(m,3H),7.25-7.28(m,2H),7.52-7.55(m,2H)
	IR(KBr)3529,3381,2927,1616,1586,1522,1490,1465,1418,1398,1360,1315,1289,1251,1225,1192,1114,1070,1011,2m-1
	m.p.82-84°C
1.980	1 HNMR(CDCl ₃) δ 1.69(s,3H),1.75(s,3H),2.49-2.56(m,2H),3.45(s,3H),3.71(s,3H),3.85(s,3H),4.06(t,J=6.6Hz.2H),5.22(m,1H),5
007-1	.67(s,1H),5.82(s,1H),6.42(s,1H),6.92-7.09(m,5H),7.35-7.43(m,2H)
	IR(KBr)3420,3326,2935,1615,1583,1518,1504,1486,1466,1410,1316,1289,1249,1122,1101,1071,1018cm-1
	m.p.166-168°C
1.981	1 HNMR(CDCl ₃) δ 2.38(s,3H),2.69(s,3H),3.11(s,3H),3.54(s,3H),3.73(s,3H),3.84(s,3H),5.14(s,2H),6.83(s,1H),7.00-7.44(m.11H)
	IR(KBr)3434,2941,1608,1521,1498,1482,1466,1397,1368,1284,1243,1177.1113 1079 1019cm ⁻¹

Table 60

	m.p.109-111°C
I-282	¹ HNMR(CDCl ₃) δ 2.39(s,3H),3.45(s,3H),3.71(s,3H),3.85(s,3H),5.10(s,2H),5.67(s,1H),5.83(s,1H),6.42(s,1H),6.95-7.41(m,11H
	IR(CHCl ₃)3497,2935,1610,1583,1519,1499,1481,1465,1399,1312,1274,1245,1185,1120,1102,1067,1019222-1
	¹ HNMR(CDCl ₃) δ 2.38(s,3H),2.68(s,3H),3.12(s,3H),3.53(s,1H),3.77(s,3H),5.14(s,2H),6.83(s.1H),7.10.7.24(m,5H) 7.33(d.1=
I-283	8.4Hz,1H),7.34(d,J=8.4Hz,2H),7.40(d,J=2.1Hz,1H)7.56-7.64(m,2H)
	IR(KBr)1603,1520,1482,1367,1297,1277,1251,1232,1176,1120,1084,1012cm ⁻¹
	1HNMR(CDCl3) & 2.39(s,3H),3.45(s,3H),3.75(s,3H),5.10(s,2H),5.68(s,1H),5.88(s,1H),6.44(s,1H),6.95(dd,J=8.4&2.1Hz,1H),7
I-284	.03(d,J=8.4Hz,1H),7.07(d,J=2.1Hz,1H),7.08-7.29(m,4H),7.34(d,J=8.4Hz,2H),7.56-7.65(m.2H)s
	IR(KBr)3504,3330,1604,1596,1490,1461,1455,1424,1360,1318,1242,1223,1121,1071,1009cm-1
	¹ HNMR(CDCl ₃) δ 2.69(s, 3H), 3.13(s, 3H), 3.56(s, 3H), 3.78(s, 3H), 5.19(s, 2H), 6.85(s, 1H), 7.05-7.15(m, 1H), 7.15(d, 1=8.4H ² , 1H), 7.15(d, 1=
1.285	30.7.49(m, 10H)
	IR(KBr)1610,1583,1517,1475,1455,1359,1296,1270,1239,1180,1116,1088,1013cm ⁻¹
	1HNMR(CDCl3) & 3.47(s,3H),3.75(s,3H),5.15(s,2H),5.68(s,1H),5.89(s,1H),6.46(s,1H),6.95(dd,1=8.4&2.1H;1H),7.03(d,1=8.4
1.286	Hz,1H),7.04-7.12(m,2H),7.35-7.51(m,9H)
	$IR(KBr)3543,3346,1612,1586,1566,1518,1502,1479,1407,1362,1320,1239,1110,1068,1006cm^{-1}$
	1HNMR(CDCl3) & 2.68(s,3H),3.14(s,3H),3.58(s,3H),3.81(s,3H),5.20(s,2H),6.88(s,1H),7.16(d,J=8.7Hz,1H),7.32-7.49(m,7H),7
I-287	60-7.68(m,1H),7.98-8.04(m,1H),8.24-8.29(m,1H),8.44-8.47(m,1H)
	IR(KBr)1609,1531,1362,1270,1239,1178,1122,1085,1014cm ⁻¹
	1HNMR(CDCl ₃) δ 3.49(s, 3H), 3.78(s, 3H), 5.17(s, 2H), 5.71(s, 1H), 5.83(s, 1H), 6.49(s, 1H))6.95(dd, J=12.3&1.2Hz, 1H), 7.02(d,
I-288	2.3Hz,1H),7.08(d,J=1.2Hz,1H),7.33-7.50(m,5H),7.60-7.68(m,1H),7.97-8.06(m,1H),8.21-8.27(m,1H),8.59(e,1H)
	IR(KBr)3528,3358,1588,1527,1499,1454,1406,1348,1314,1241.1122.1070.1096.m-1

Table 61

	1HNMR(CDCl ₃) & 2.68(s,3H),3.13(s,3H),3.55(s,3H),5.19(s,2H),6.79-6.88(m,1H),6.86(s,1H),7.02-7.10(m,2H),7.15(
1.289	d,J=8.4Hz,1H),7.26-7.50(m,8H)
	IR(KBr)3479,3388,1623,1603,1518,1478,1396,1358,1176,1118,1081,1013cm ⁻¹
	1HNMR(CDCl3) & 3.11(s,3H),3.45(s,3H),3.77(s,3H),5.17(s,2H),6.05(s,1H),6.46(s,1H))7.00-7.18(m,1H),7.14(d,J=8.4Hz,1H),7
1.290	.33-7.50(m,9H),7.52(d,J=2.1Hz,1H)
	IR(KBr)3504,1612,1578,1519,1498,1464,1391,1355,1290,1276,1239,1183,1167,1107,1070,1004cm-1
	1HNMR(CDCl3+CD3OD) δ 3.44(s,3H),3.75(s,3H),4.74(s,2H),5.13(s,2H),1H),6.86-6.95(m,3H),6.99(d,J=8.7Hz,1H),7.30-7.48(
1-291	m,7H),7.52(d,J=8.7Hz,2H)
	$1R(KBr)3433,1707,1611,1518,1473,1463,1379,1250,1174,1132,1089,1058,1016cm^{-1}$
1.909	¹ HNMR(CDCl ₃ +CD ₃ OD) δ 3.41(s,3H),3.62(s,3H),3.75(s,3H),4.74(s,2H),5.15(s,2H),6.87-7.01(m,4H),7.30-7.55(m,9H)
707.1	IR(KBr)3386,1722,1611,1518,1464,1343,1271,1245,1233,1215,1168,1082,1060,1021cm ⁻¹
1 903	1HNMR(CDCl3) & 2.38(s,3H),2.69(s,3H),3.12(s,3H),3.56(s,3H),3.78(s,3H),5.14(s,2H),6.85(s,1H),7.05-7.45(m,12H)
067-1	IR(IXBr)1607,1584,1519,1479,1401,1364,1348,1280,1237,1178,1164,1115,1081,1016cm ⁻¹
	foam
1.994	¹ HNMR(CDCl ₃) δ 3.45(s,3H),3.75(s,3H),4.36(d,J=2.1Hz,1H),4.55(s,2H),4.76(d,J=2.1Hz,1H),6.45,(s,1H),6.92(d,J=8.7Hz,2H)
	,6.99(d,J=8.4Hz,1H),7.20(dd,J=1.5and8.4Hz,1H),7.11(d,J=1.5Hz,1H),7.53(d,J=8.7Hz,2H)
	$IR(Nujol)3425, 1612, 1588, 1523, 1487, 1295, 1268, 1228, 1113, 1069, 825cm^{-1}$
	foam
1.995	1HNMR(CDCl3) & 2.78(s,3H),3.21(s,3H),3.23(s,3H),3.55(s,3H),3.78(s,3H),4.79(d,J=6.6Hz,2H),6.21(t,J=6.6Hz,1H),6.85(s,1H)
),7.08(d,J=8.7Hz,1H),7.37(dd,J=8.7,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H)
	IR(Nujol)1632,1607,1519,1482,1180,1150,1079,1011,976,876,814,798cm ⁻¹

Table 62

	foam
1 906	1 HNMR(CD $_{3}$ OD) δ 3.38(s,3H),3.68(s,3H),4.12(brs,2H),4.65(brs,2H),5.01(m,2H),6.43(s,1H),6.78(dd,J=8.7,1.8Hz,1H),6.85(d,
067-1	J=8.7,2H),6.86(d,J=1.8Hz,1H),6.94(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H)
	IR(Nujol)3411,1612,1591,1520,1485,1461,1253,1223,1115,1008,971,944,842,810,785cm ⁻¹
	foam
1 907	¹ HNMR(CD ₃ OD) δ 3.38(s,3H),3.68(s,3H),4.73(d,J=5.1Hz,2H),4.23(d,J=5.1Hz,2H),5.83(m,2H),6.43(s,1H),6.79(dd,J=8.7,1.8
167.1	Hz,1H),6.85(d,J=8.7,2H),6.86(d,J=1.8Hz,1H),6.94(d,J=8.7Hz,2H)
	IR(Nujol)3393,1611,1588,1523,1489,1460,1248,1114,1071,1013,940,824cm ⁻¹
	foam
1 900	1 HNMR(CD ₃ OD) δ 1.77(s,3H),3.38(s,3H),3.68(s,3H),4.00(s,2H),5.72(d,J=6.3Hz,2H),5.81(t,J=6.3Hz,1H),6.43(s,1H),6.79(dd.
067-1	J=8.7,1.8Hz,1H),6.85(d,J=8.7,2H),6.85(d,J=1.8Hz,1H),6.94(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H)
	81c
	foam
1.990	$^{1}\text{HNMR}(\text{CD}_{3}\text{OD}) \ \delta 1.87 \text{(s,3H),3.83(s,3H),3.68(s,3H),4.17(s,2H),4.69(d,J=6.6\text{Hz,2H}),5.68(t,J=6.3\text{Hz,1H}),6.43(s,1H),6.79(dd,J=6.6\text{Hz,2H}),6.6\text{Hz,2H}),6.6\text{Hz,2H}),6.79(dd,J=6.6\text{Hz,2H}),6.6\text{Hz})$
	J=8.7, 1.8 Hz, 1H), 6.85 (d, J=8.4, 2H), 6.85 (d, J=1.8 Hz, 1H), 6.94 (d, J=8.4 Hz, 1H), 7.46 (d, J=8.7 Hz, 2H)
	IR(Nujol)3350,3236,1606,1589,1524,1490,1463,1247,1227,1079,1011,992,819,790cm ⁻¹
	foam
1.300	¹ HNMR(CDCl ₃) δ 1.87(s,3H),2.10(s,3H),3.45(s,3H),3.74(s,3H),4.68(s,2H),4.71(d,J=6.0Hz,2H),5.77(t,J=6.0Hz,1H),6.44(s,1H)
3), 6.92 (d, J = 8.0 Hz, 2H), 6.95 (m, 2H), 7.07 (brs, 1H), 7.53 (d, J = 6.0 Hz, 2H)
	IR(Nujol)3409,1724,1612,1587,1523,1489,1460,1239,1114,1071,1012,940.825.781cm ⁻¹

Table 63

	foam
	'HNMR(CD ₃ OD) δ 2.93(d,J=2.1Hz,1H),3.38(s,3H),3.68(s,3H),4.06(dd,J=9.9,7.8Hz,1H),4.20(dd,J=9.9,3.6Hz,1H),4.74(ddd,J
1.301	=7.8,3.6,2.1Hz,1H),6.44(s,1H),6.80(dd,J=8.4,1.8Hz,1H),6.85(d,J=8.7,2H),6.87(d,J=1.8Hz,1H),6.96(d,J=8.4Hz,1H),7.46(d,J=
,	8.7Hz,2H)
	IR(Nujol)3282,1655,1612,1588,1523,1489,1460,1254,1226,1072,1013,940,825cm ⁻¹
	foam
1,309	$^{1}\text{HNMR}(\text{CD}_{3}\text{OD}) \delta 3.30(\text{s},3\text{H}), 3.68(\text{s},3\text{H}), 4.75(\text{d},\text{J}=5.1\text{Hz},2\text{H}), 6.44(\text{s},1\text{H}), 6.80(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.85(\text{d},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.85(\text{d},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.85(\text{d},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.85(\text{dd},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.85(\text{dd},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.85(\text{dd},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.82(\text{dd},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.82(\text{dd},\text{J}=8.4.2\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{Hz},1\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{Hz},1\text{H}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{Hz},1\text{Hz},1\text{Hz}), 6.92(\text{dd},\text{J}=8.4,1.8\text{Hz},1\text{Hz}$
700-1	J=1.8Hz,1H),6.99(d,J=8.7Hz,1H),7.42(t,J=5.1Hz,1H),7.46(d,J=8.4Hz,2H)
•	IR(Nujol)3474,3316,1678,1611,1584,1523,1487,1458,1268,1231,1115,1171,1011,942,824,758cm ⁻¹
	foam
1 309	1 HNMR(CD ₃ OD) δ 1.24(d,J=7.2Hz,3H),3.38(s,3H),3.68(s,3H),4.12(q,J=7.2Hz,2H),4.75(d,J=4.8Hz,2H),6.43(s,1H),6.80(dd,J=4.8Hz,2H),4.75(d,J=4.8Hz,2H),6.43(s,1H),6.80(dd,J=4.8Hz,2H),4.75(d,J=4.8Hz,2H),6.43(s,1H),6.80(dd,J=4.8Hz,2H),4.75(d,J=4.8Hz,2H),4.12(d,J=4.8Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2
COC-T	=8.4,1.8Hz,1H),6.85(d,J=8.7,2H),6.91(d,J=1.8Hz,1H),6.99(d,J=8.4Hz,2H),7.46(d,J=8.7Hz,2H),7.52(t,J=4.8Hz,1H)
	IR(Nujol)3306,1715,1612,1587,1523,1487,1460,1266,1232,1115,1070,824,760cm ⁻¹
	foam
	1HNMR(CDCl ₃) δ 2.34(s,3H),2.38(s,3H),2.70(s,3H),3.07(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.13(s,2H),6.84(s,1H),7.03(
I-304	d,J=7.8Hz,1H),7.06(s,1H),7.18(d,J=8.4Hz,1H),7.28(d,J=7.8Hz,1H),7.36(dd,J=2.1.8.4Hz,1H),7.38(d.J=8.7Hz,2H),7.40(d.J=9.1.8.4Hz,1H),7.38(d.J=8.7Hz,2H),7.40(d.J=9.1.8.4Hz,1H),7.38(d.J=8.7Hz,2H),7.40(d.J=9.1.8.4Hz,1H),7.38(d.J=8.7Hz,2H),7.40(d.J=9.1.8.4Hz,1H),7.38(d.J=8.7Hz,2H),7.40(d.J=9.1.8.4Hz,1H),7.38(d.J=9.1.8.4Hz,1Hz,1H),7.38(d.J=9.1.8.4Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1
	.1Hz,1H),7.68(d,J=8.7Hz,2H)
	$IR(KBr)1611,1518,1480,1365,1177,1151,1080,876,816cm^{-1}$
	foam
	¹ HNMR(CDCl ₃) δ 1.25(d,J=6.9Hz,6H),2.67(s,3H),2.93(q,J=6.9Hz,1H)3.13(s,3H),3.21(s,3H),3.56(s,3H) 3.78(s,3H) 5.15(s,2H)
1.305),6.84(s, 1H),7.16(d,J=8.7Hz, 1H),7.26(d,J=8.4Hz,2H),7.34(dd,J=2.4,8.7Hz,1H),7.38(d.J=8,4Hz,4H),7.40(d,J=9,4Hz,1H),7.86(d,J=8,4Hz,4Hz,4H),7.86(d,J=8,4Hz,4Hz,4Hz,4Hz,4Hz,4Hz,4Hz,4Hz,4Hz,4Hz
	(d,J=8.4Hz,2H)
·	$IR(KBr)1609, 1519, 1481, 1365, 1177, 1151, 1080, 875, 819cm^{-1}$

Table 64

1-306	foam 1HNMR(CDCl ₃) δ 2.62(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),5.36(s,2H),6.84(s,1H),7.18(d,J=8.7Hz,1H),7.26(s,1H),7.33(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.51(m,2H),7.57(dd,J=1.8,8.4Hz,1H),7.68(d,J=8.7Hz,2H),7.84-7.93(m,4H) 2H),7.84-7.93(m,4H) IR(KBr)1608,1519,1480,1364,1177,1151,1079,876,819.797cm ⁻¹
1.307	foam 'HNMR(CDCl ₃) δ 2.64(s,3H),3.21(s,3H),3.28(s,3H),3.77(s,3H),5.51(s,2H),6.83(s,1H),7.18(d,J=8.4Hz,1H),7.31(dd ,J=2.4,8.4Hz,1H),7.37(d,J=8.7Hz,2H),7.42(d,J=2.4Hz,1H),7.58(dt,J=2.4,7.2Hz,1H),7.67(d,J=8.7Hz,2H),7.74(d,J=8.4Hz,1H) ,7.76(dt,J=2.4,7.2Hz,1H),7.85(d,J=7.2Hz,1H),8.06(d,J=7.2Hz,1H),8.23(d,J=7.2Hz,1H) IR(KBr)1603.1519.1480.1365.1177.1151.1080.876.824.7975m-1
1.308	foam ¹ HNMR(CDCl ₃) δ 2.76(s,3H),3.17(s,3H),3.21(s,3H),3.78(s,3H),5.25(s,2H),6.85(s,1H),7.12(d,J=8.7Hz,1H),7.35(dd ¹ J=2.1,8.4Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d,J=2.1Hz,1H),7.61(d,J=8.7Hz,2H),7.67(d,J=8.4Hz,2H),7.68(d,J=8.7Hz,2H) ¹ IR(KBr)1610,1522,1489,1402,1245,1181,1164,1110,1071,821,805cm ⁻¹
I-309	m.p.221-222°C 'HNMR(CDCl3) δ 2.36(s,3H),2.38(s,3H),3.46(s,3H),3.75(s,3H),5.09(s,2H),6.45(s,1H),6.92(d,J=8.4Hz,2H),6.98(dd,J=2.1,8.1 Hz,1H),7.06(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.08(s,1H),7.28(d,J=8.4Hz,1H),7.53(d,J=8.4Hz,2H) IR(KBr)3475,1610,1522,1489,1402,1245,1181,1164,1110,1071,821,805cm ⁻¹
1:310	m.p.153-155 C ¹ HNMR(CDCl ₃) δ 1.27(d,J=6.9Hz,6H),2.95(q,J=6.9Hz,1H),3.45(s,3H),3.74(s,3H),5.11(s,2H),6.45(s,1H),6.91(d,J=8.4Hz,2H), 6.96(dd,J=2.1,8.1Hz,1H),7.03(d,J=8.1Hz,1H),7.08(d,J=2.1Hz,1H),7.28(d,J=8.1Hz,2H),7.38(d,J=8.1Hz,2H),7.53(d,J=8.4Hz,2H) 2H) ¹ IR(KBr)3486,1611,1522,1489,1265,1113,1072,1011,823cm ⁻¹
	111(111)/2100,1011,1042,1463,1260,1113,10/2,1011,823cm

Table 65

	m.p.176-177°C
1.311	1HNMR(CDCl ₃) & 3.45(s,3H),3.75(s,3H),5.32(s,2H),6.45(s,1H),6.91(d.J=8.4Hz.2H),6.97(dd.J=2.1,8.4Hz.1H),7.06(d.J=2.1,3.1H)
110.1	1H),7.10(d,J=2.1Hz,1H),7.53(d,J=8.4Hz,2H),7.50-7.57(m,3H).7.82-7.92(m,4H)
	IR(KBr)3476,1610,1522,1488,1469,1401,1263,1246,1173,1112,1073,1014,1002,819,806cm-1
	m.p.235-237°C
	1HNMR(CDCl ₃) & 3.44(s,3H),3.73(s,3H),5.49(s,2H),6.44(s,1H),6.92(d.J=8.4Hz.2H) 6.93(dd.J=9.1.8.4Hz.1H) 7.14/2.11=0.11=0.11=0.11=0.11=0.11=0.11=0.11=
I-312	,1H),7.18(d,J=8.4Hz,1H),7.38(d,J=8.4Hz,1H),7.52(d,J=8.4Hz,2H),7.58(dd,J=7.2.7.2Hz,1Hz,7.1H
	J=7.2Hz,1H),8.21(d,J=7.2Hz,1H),8.22(d,J=7.2Hz,1H)
	IR(KBr)3378,1609,1522,1488,1268,1229,1205,1114,1072,1016,825,782cm-1
	m.p.159-161°C
1.313	1HNMR(CDCl ₃) δ 3.45(s, 3H), 3.75(s, 3H), 5.22(s, 2H), 6.45(s, 1H), 6.92(d, J=8.4Hz, 2H) 6.96(hr s, 9H) 7.11(hr s, 1H) 7.522, 11-6.4
	Hz,2H),7.57(d,J=8.4Hz,2H),7.68(d,J=8.4Hz,2H),
	$IR(KBr)3433,1613,1523,1490,1326,1251,1166,1113,1066,1014,825.cm^{-1}$
,	m.p.92-93℃
1.314	¹ HNMR(CDCl ₃) & 1.63(s, 3H), 1.74(s, 3H), 2.34-2.39(m, 1H), 2.67-2.72(m, 2H), 3.47(s, 3H), 3.74(s, 3H), 4.59-4.54(m, 9H), 5.90-5.90
	m,2H),6.78-6.97(m,4H),7.20(d,J=7.2Hz,1H),7.56(d,J=8.0Hz,2H)
	IR(KBr)3410,2932,1613,1519,1473,1444,1390,1263,1228,1174cm ⁻¹
	m.p.85-86℃
1.315	1HNMR(CDCl ₃) δ 1.76(s, 3H), 1.83(s, 3H), 2.17-2.40(m, 1H), 2.65-2.71(m, 2H), 3.24(s, 3H), 3.46(s, 3H), 3.80(s, 3H), 4.60, 4.60, 6.11
),6.70(s,1H),7.28-7.43(m,5H),7.73(d,J=8.6Hz,2H)
	IR(KBr)3432,2938,1731,1513,1469,1366,1180,1151.970,868cm ⁻¹

Table 66

	m.p.179-180°C
1.316	1HNMR(CDCl ₃) & 1.72(s,3H),1.76(s,3H),2.15-2.35(m,1H),2.61-2.70(m,2H),3.46(s,3H),3.76(s,3H),4.47-4.50(m,2H) 6.68(s,1H)
010-1),7.17-7.52(m,5H),7.69(d,J=8.4Hz,2H)
	$1R(KBr)3427,2934,1612,1576,1519,1465,1443,1415,1376,1228,1174,846cm^{-1}$
	m.p.141-142°C
1,317	1 HNMR(CDCl ₃) δ 1.75(s,3H), 1.80(s,3H), 3.21(s,3H), 3.39(s,3H), 3.68(s,3H), 3.77(s,3H), 4.61(d, J=7.2Hz, 2H) 5.50/t. 1=7.0Hz, 1H
710-1),6.93(s,1H),6.99-7.33(m,5H),7.57-7.65(m,2H)
	1R(KBr)3432,2938,1724,1519,1474,1365,1346,1294,1262,1244,1220,1163,1119,1059,953,849,8051
	m.p.127-128°C
1 216	1HNMR(CDCl3) & 1.68(s,3H), 1.74(s,3H), 2.54(dt, J=4.2, 4.6Hz,2H), 3.20(s,3H), 3.39(s,3H), 3.68(s,3H), 3.76(s,3H), 4.05(t,1-4.4H)
010-1	z,2H),5.21(t,J=4.6Hz,1H),6.93(s,1H),7.00(d,J=5.6Hz,1H),7.11·7.18(m.2H),7.25·7.35(m.3H),7.11·3.38 & 8 Hz)
	IR(KBr)3447,2974,2940,1740,1519,1471,1365,1343,1295,1262,1226,1182,1161,1119,1058,959,943,91421
	m.p.171-172°C
1 310	1HNMR(CDCl3) § 2.38(s,3H),3.10(s,3H),3.39(s,3H),3.66(s,3H),3.77(s,3H),5.11(s,2H),6.93(s,1H),7.07.7 36(m, aH),7.61,44.1-
010-1	3.4,5.6Hz,2H)
	IR(KBr)3431,2937,1724,1519,1474,1440,1346,1296,1259,1243,1222,1165,1121,1060,953,843,804222-1
	m.p.155-156°C
1.390	1HNMR(CDCl ₃) § 3.40(s,3H),3.69(s,3H),3.77(s,3H),5.13(s,2H),5.70(brs.1H),6.82-7.42(m,5H),7.39-7.42(m,5H),7.69(m,5H)
070-1	,8.6Hz)
	IR(IXBr)3550,3481,2956,1723,1519,1467,1435,1344,1285,1261,1238,1223,1130,1058,1013,8401
	100,100,100,100,100,100,100,100,100,100

Table 67

1.321	m.p.159-160°C 'HNMR(CDCl ₃) & 3.11(s,3H),3.40(s,3H),3.66(s,3H),3.77(s,3H),5.16(s,2H),6.93(s,1H),7.07-7.49(m,5H),7.62(dd,J=3.0,8.4Hz,2 H) IR(KBr)3441,2952,1732,1519,1469,1445,1381,1356,1342,1291,1273,1243,1226,1162,1119,1081,1057,999,950,842,805cm ⁻¹
I-322	m.p.160-161°C ¹ HNMR(CDCl ₃) δ 2.37(s,3H),2.93(s,3H),3.19(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.23(s,2H),6.86(s,1H),7.20(d,J=8.1Hz, ² H),7.30(d,J=8.1Hz,2H),7.36-7.41(m,2H),7.64-7.70(m,2H),7.74(d,J=2.1Hz,1H),7.83(d,J=2.1Hz,1H),10.16(s,1H) ¹ IR(CHCl ₃)3027,2940,1692,1473,1373,1227,1152,1085cm ⁻¹
I-323	powder ¹ HNMR(CDCl ₃) δ 2.37(s,3H),2.86(s,3H),3.13(s,3H),3.21(s,3H),3.54(s,3H),3.79(s,3H),4.64(s,2H),5.11(s,2H),6.85(s,1H),7.21(d,J=7.8Hz,2H),7.32-7.44(m,6H),7.65-7.70(m,2H) IR(CHCl ₃)3026,2939,1475,1372,1228,1178,1151,1084cm ⁻¹
I-324	powder 'HNMR(CDCl ₃) δ 1.89-1.98(brs,1H),2.39(s,3H),3.45(s,3H),3.75(s,3H),4.77(s,2H),5.01(s,3H),5.46(s,1H),5.99(s,1H),6.45(s,1H),6.45-6.95(m,2H),7.05(s,2H),7.24(d,J=8.1Hz,2H),7.38(d,J=8.1Hz,2H),7.50-7.56(m,2H) IR(CHCl ₃)3514,2937,1731,1613,1522,1484,1403,1228,1173,1082 _{cm} -1
1-325	powder 1HNMR(CDCl ₃) δ 2.31(s,3H),2.88(s,3H),3.07(s,3H),3.22(s,3H),3.51(s,3H),3.74(s,3H),5.23(s,2H),6.83(s,1H),7.11-7.18(m,2H), 7.32-7.41(m,4H),7.62-7.68(m,3H),8.03(s,1H) IR(CHCl ₃)3026,2939,1742,1472,1374,1227,1179,1129,1085cm ⁻¹

Table 68

	' finimik(CD3OD) 0
	IR(KBr)3411,2935,1680,1611,1520,1457,1404,1281,1230,1114cm ⁻¹
ď	powder
II 200 I	$^{1}\text{HNMR}(\text{CDC}_{13}) \ \delta \ \ 1.72 (\text{s}, 3\text{H}), 1.79 (\text{s}, 3\text{H}), 3.12 (\text{s}, 3\text{H}), 3.21 (\text{s}, 3\text{H}), 3.52 (\text{s}, 3\text{H}), 3.52 (\text{s}, 3\text{H}), 3.53 (\text{s}, 3\text{H}), 4.81 (\text{d}, J=7.5 \text{Hz}, 2\text{H}), 5.51 (\text{m}, 3.53 (\text{s}, 3.$
	1H),7.38-7.43(m,2H),7.45-7.50(m,2H),7.80(d,J=2.1Hz,1H),7.97(d,J=2.1Hz,1H)
	$IR(CHCl_3)3032,2941,1543,1377,1209cm^{-1}$
E	m.p.205-206℃
11 990 I	$^{1}\text{HNMR}(\text{CDCl}_3) \ \delta \ 1.75(\text{s}, 3\text{H}), 1.80(\text{s}, 3\text{H}), 3.41(\text{s}, 3\text{H}), 4.66(\text{d}, J=6.6\text{Hz}, 2\text{H}), 5.06(\text{s}, 1\text{H}), 5.53(\text{m}, 1\text{H}), 6.33(\text{s}, 1\text{H}), 6.89-6.$
	95(m,2H),7.28-7.34(m,2H),7.38-7.40(m,1H),7.99(d,J=2.1Hz,1H),10.83(d,J=0.6Hz,1H)
II	IR(KBr)3476,2940,1614,1532,1371,1238,1094,1035cm ⁻¹
	m.p.144-145°C
	1HNMR(CDCl ₃) δ 2.83(s,3H)3.22(s,3H),3.28(s,3H),3.55(s,3H),3.79(s,3H),6.86(s,1H),7.37-7.45(m,3H),7.47-7.53(m,3H),7.65-
1-529	7.70(m,2H)
	IR(KBr)3434,3019,2939,1515,1480,1370,1176,1150,1081cm ⁻¹
ಹ	amorphous
-	$^{1}\text{HNMR}(\text{CDCl}_{3}) \ \delta \ \ 1.68(\text{s},3\text{H}), 1.74(\text{s},3\text{H}), 2.54(\text{q},J=7.2\text{Hz},2\text{H}), 3.21(\text{s},3\text{H}), 3.41(\text{s},3\text{H}), 3.65(\text{s},3\text{H}), 3.77(\text{s},3\text{H}), 4.03(\textbf{t},J=7.2\text{Hz},2\text{Hz},2\text{Hz}), 3.41(\text{s},3\text{Hz},2\text{Hz},$
1-330), 5.23(t, J = 7.2 Hz, 1 H), 6.94(s, 1 H), 6.98(t, J = 8.6 Hz, 1 H), 7.05(ddd, J = 8.6, 2.1, 0.9 Hz, 1 H), 7.14(dd, J = 12.0, 2.1 Hz, 1 H), 7.38(d, J = 8.7 Hz, 1
z,	z,2H),7.71(d,J=8.7Hz,2H)
II	$IR(CHCl_3)1732,1521,1471,1375,1262,1230,1150,1061.874cm^{-1}$

Table 69

	m.p.146-148°C
	1HNMR(CDCl ₃) δ 1.56(s,3H),1.80(s,3H),3.21(s,3H),3.41(s,3H),3.65(s,3H),3.77(s,3H),4.61(d,J=6.9Hz,2H),5.54(t,J=6.9Hz,1H
1.331	1-331),6.94(s,1H),6.98(t,J=8.4Hz,1H),7.05(ddd,J=8.4,2.4,0.9Hz,1H),7.14(dd,J=12.0,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.71(d,J=8.7H
	z,2H)
	IR(KBr)1736,1519,1471,1357,1257,1150,1061,984,872cm ⁻¹
	m.p.170·171°C
	¹ HNMR(DMSO-d ₆) δ 1.73(s,3H),1.77(s,3H),3.31(s,3H),3.73(s,3H),4.62(d,J=7.0Hz,2H),5.48(t,J=7.0Hz,1H),6.87(d,J=8.9Hz,2
1.332	H),7.00(s,1H),7.03(ddd,J=8.7,2.3,0.9Hz,1H),7.10(dd,J=12.3,2.3Hz,1H),7.18(t,J=8.7Hz,1H),7.48(d,J=8.9Hz,2H),9.60(s,1H),1
	2.9(brs,1H)
	IR(KBr)3258,1687,1615,1523,1465,1373,1260,1233,1057,994,835,823cm ⁻¹
	m.p.172-174°C
1,333	1HNMR(CDCl3) § 3.21(s,3H),3.41(s,3H),3.61(s,3H),3.77(s,3H),5,17(s,2H),6.94(s,1H),7.01-7.04(m,2H),7.13-7.18(m,1H),7.33-
000-1	7.49(m,7H),7.70(d,J=9.0Hz,2H)
	IR(KBr)1725,1522,1463,1346,1261,1230,1147,1058,878,756cm ⁻¹
	m.p.149.151°C
	1 HNMR(CDCl ₃) δ 2.36(s,3H),3.21(s,3H),3.41(s,3H),3.61(s,3H),3.77(s,3H),5,13(s,2H),6.93(s,1H),7.00-7.03(m,2H),7.12-7.17(
I-334	m,1H),7.20(d,J=8.4Hz,2H),7.35(d,J=8.4Hz,2H),7.38(d,J=8.7Hz,2H),7.70(d,J=8.7Hz,2H)
	$IR(KBr)1731,1519,1472,1370,1298,1152,1058,874,791cm^{-1}$

Table 70

	m.p.173-174℃
	¹ HNMR(DMSO-d ₆) δ 1.64(s,3H),1.70(s,3H),2.45(q,J=6.9Hz,2H),3.31(s,3H),3.73(s,3H),4.04(t,J=6.9Hz,2H),5.22(t,J=6.9Hz,1
1-335	H), 6.87(d, J=8.7Hz, 2H), 6.99(s, 1H), 7.03(ddd, J=8.7, 2.1, 0.9Hz, 1H), 7.10(dd, J=12.3, 2.1Hz, 1H), 7.16(t, J=8.7Hz, 1H), 7.48(d, J=8.7
	Hz,2H),9.61(s,1H),12.9(brs,1H)
	IR(KBr)3303,1696,1523,1473,1371,1261,1241,1061,1009,839cm ⁻¹
	m.p.222-224°C
1 396	1HNMR(DMSO-d6) & 3.31(s,3H),3.73(s,3H),5.20(s,2H),6.87(d,J=8.7Hz,2H),7.00(s,1H),7.03-7.07(m,1H),7.13(dd,J=12.3,2.1H
1-990	z,1H),7.26(t,J=8.7Hz,1H),7.36-7.52(m,7H),9.61(s,1H),12.9(brs,1H)
	IR(KBr)3268, 1689, 1523, 1465, 1374, 1261, 1055, 836cm ⁻¹
	m.p.205-206℃
	1HNMR(DMSO-d6) & 2.32(s,3H),3.31(s,3H),3.72(s,3H),5.15(s,2H),6.87(d,J=8.7Hz,2H),6.99(s,1H),7.04(ddd,J=9.0,1.9,0.9Hz,
I-337	1H),7.12(dd,J=12.3,1.9Hz,1H),7.23(d,J=8.0Hz,2H),7.24(t,J=9.0Hz,1H),7.38(d,J=8.0Hz,2H),7.48(d,J=8.7Hz,2H),9.60(8,1H),
	12.9(brs,1H)
·	IR(KBr)3303,1696,1523,1464,1261,1241,1056,993,838,811,791cm ⁻¹
	m.p.120-121°C
	¹ HNMR(CDCl ₃) δ 3.13(s,3H),3.50(s,3H),3.78(s,3H),5.08(s,1H),5.20(s,2H),6.90(m,2H),7.09(s,1H),7.15-7.19(m,3H),7.37-7.50(
I-338	m,5H),7.56(dd,J=10.8,2.1Hz,1H),7.64(d,J=2.4Hz,1H),9.90(s,1H)
	IR(KBr)3460, 2934, 1694, 1609, 1585, 1518, 1467, 1442, 1348, 1295, 1273, 1255, 1238, 1171, 1123, 1075, 1003, 960, 828, 807, 755, 700, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12000, 12
	653,582,522cm ⁻¹
	m.p.256-258°C
1,330	¹ HNMR(DMSO-d ₆) δ 3.34(s,3H),3.35(s,3H),3.72(s,3H),5.28(s,2H),6.75(d,J=8.1Hz,2H),7.05-7.11(m,3H),7.36-7.45(m,4H),7.5
1.000	3(d,J=8.1Hz,2H),7.60-7.66(m,2H),9.44(s,1H),12.84(s,1H)
	$IR(KBr)3459, 2940, 2563, 1706, 1612, 1522, 1469, 1349, 1294, 1258, 1185, 1114, 1082, 1063, 1000, 961, 919, 827, 756, 699, 524cm^{-1}$

Table 71

	m.p.165-166°C
1 240	$^{1}\text{HNMR}(\text{CDC} _{3}) \ \delta \ 3.14(\text{s},3\text{H}), 3.19(\text{s},3\text{H}), 3.51(\text{s},3\text{H}), 5.21(\text{s},2\text{H}), 7.11(\text{s},1\text{H}), 7.17(\text{d},J=8.4\text{Hz},1\text{H}), 7.29-7.50(\text{m},9\text{H}), 7.11(\text{s},1\text{H}), 7.11(\text{s},1\text{H}),$
1-340	57(dd,J=8.1,2.1Hz,1H),7.65(d,J=2.1Hz,1H),10.02(s,1H)
	IR(CHCl ₃)2938,2844,1698,1613,1590,1515,1469,1372,1331,1293,1255,1174,1150,1122,1092,1005,969,873,816cm ⁻¹
	m.p.195-197°C
1 941	${}^{1}HNMR(CDCl_{3}) \delta \ 3.13(s,3H), 3.18(s,3H), 3.77(s,3H), 5.20(s,2H), 6.97(s,1H), 7.17(d,J=8.7Hz,1H), 7.30-7.50(m,9H), 7.10(s,2H), 1.10(s,2H), 1.$
1.541	58(dd,J=8.7,1.8Hz,1H),7.67(d,J=1.8Hz,1H)
	IR(CHCl ₃)2938,1740,1707,1601,1516,1472,1371,1293,1260,1174,1149,1117,1082,1060,1002.971.875cm ⁻¹
	m.p.207.209°C
070	$ HNMR(CD_3OD) \delta \ \ 3.40(s,3H), 3.72(s,3H), 5.21(s,2H), 6.76.6.78(m,2H), 6.97(s,1H), 7.01-7.17(m,4H), 7.31.7.52(m,6H) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
1.042	IR(KBr)3366,1705,1612,1591,1522,1473,1434,1375,1253,1234,1130,1084,1061,998,918,864,835,813,792,743,697,648,526c
	m ⁻¹
	m:p.206-208℃
1 242	¹ HNMR(CDCl ₃) δ 3.14(s, 3H), 3.48(s, 3H), 3.72(s, 3H), 5.20(s, 2H), 5.48(br, 1H), 6.85-6.89(m, 3H), 7.15-7.19(m, 3H), 7.37-7.51(m, 8
040-1	H),7.56(dd,J=8.4,2.4Hz,1H),7.68(d,J=2.4Hz,1H)
	IR(CHCl ₃)3320,2938,1612,1520,1474,1371,1292,1257,1172,1120,1090,1005,972,857,837,818cm ⁻¹
	m.p.187-190°C
1.344	¹ HNMR(CDCl ₃) δ 2.33(s,3H),3.13(s,3H),3.50(s,3H),3.76(s,3H),5.20(s,2H),7.10(s,1H),7.15-7.19(m,3H),7.28-7.50(m,7H),7.56(
	dd,J=8.7,2.4Hz,1H),7.64(d,J=2.4Hz,1H),9.93(s,1H)
	IR(CHCl ₃)2930,2836,1750,1695,1588,1513,1465,1369,1329,1220,1166,1122,1091,1003,962,912,848,813cm ⁻¹
	1000101010101010101010101010101010101010

Table 72

	m.p.218-220℃
	¹ HNMR(DMSO-d ₆) δ 2.29(s,3H),3.36(s,3H),3.37(s,3H),5.29(s,2H),7.11-7.16(m,3H),7.31-7.46(m,6H),7.52-7.55(m,
1-345	2H),7.62-7.68(m,2H),13.00(br,1H)
	IR(KBr) 3433, 2940, 2600, 1757, 1713, 1652, 1611, 1518, 1471, 1365, 1295, 1260, 1216, 1200, 1171, 1117, 1082, 1061, 1022, 998, 975, 9100, 1100
	16,897,829,804,735,697,525cm ⁻¹
	m.p.206-208°C
776	¹ HNMR(CDCl ₃) δ 2.31(s,3H),3.13(s,3H),3.45(s,3H),3.58(s,3H),3.76(s,3H),5.19(s,2H),6.95(s,1H),7.08-7.16(m,3H),7.34-7.50(
1.340	m,7H),7.57(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H)
	$IR(CHCl_3)2939,1732,1613,1599,1518,1468,1371,1290,1169,1117,1081,1064,1004,972,961,905,847,828cm^{-1}$
	m.p.201-203°C
1.01	¹ HNMR(DMSO-d ₆) δ 1.72(s,3H),1.76(s,3H),3.34(s,3H),3.63(s,3H),4.51(d,J=4.2Hz,2H),5.49(t,J=4.6Hz,1H),6.66(s,1H),6.76(s,
1-047	2H),6.86(s,1H),7.23-7.29(m,2H),7.62-7.66(m,2H)
	$IR(KBr)3431,2935,1575,1516,1462,1444,1421,1397,1375,1224,1159,1063,837cm^{-1}$
	m.p.265-266°C
1 940	¹ HNMR(DMSO-d ₆) δ 2.31(s,3H),3.33(s,3H),3.62(s,3H),5.03(s,2H),6.66(s,1H),6.72-6.90(m,4H),7.18-7.28(m,3H),7.38(d,J=5.2
1.040	Hz,2H),7.64(dd,J=4.0,5.4Hz,2H)
	IR(KBr)3428,2925,1575,1516,1463,1442,1396,1374,1248,1221,1129,1087,1068cm ⁻¹
	m.p.262-263°C
1.340	¹ HNMR(DMSO-d ₆) δ 1.64(s,3H),1.70(s,3H),2.43(dt,J=4.6,5.0Hz,2H),3.34(s,3H),3.62(s,3H),3.91(t,J=4.8Hz,2H),5.25(t,J=4.6
C. C	Hz,1H),6.70(s,1H),6.75(s,2H),6.87(s,1H),7.23.7.29(m,2H),7.64(dd,J=2.0,5.8Hz,2H)
	$IR(KBr)3430,2934,1575,1516,1464,1443,1422,1398,1375,14246,1225,1065,1015cm^{-1}$

Table 73

	1HNMR(CDCl ₃) δ 1.76(s,3H),1.81(d,J=0.6Hz,3H),2.54(s,3H),2.73(s,3H),3.23(s,3H),3.54(s,3H),3.77(s,3H),4.63(d,J=6.6Hz,2
1.350	H),5.49(m,1H),6.85(s,1H),7.09(d,J=8.4Hz,1H),7.30-7.40(m,4H),7.53-7.59(m,2H)
	IR(CHCl ₃)2936,1606,1515,1475,1366,1116,1078,970,875,820cm ⁻¹
	1HNMR(CDCl ₃) δ 1.68(s, 3H), 1.74(d, J=0.9Hz, 3H), 2.48-2.60(m, 5H), 2.75(s, 3H), 3.21(s, 3H), 3.54(s, 3H), 3.77(s, 3H), 4.07(t, J=6.9
1-351	Hz,2H),5.21(m,1H),6.85(s,1H),7.07(d,J=8.7Hz,1H),7.30-7.42(m,4H),7.53-7.59(m,2H)
	IR(CHCl ₃)2928,1607,1517,1476,1367,1267,1118,1080,1014,971,892,822cm ⁻¹
	m.p.201-203°C
1.389	1 HNMR(CDCl ₃) δ 3.35(s,3H),3.75(s,3H),3.76(s,3H),5.26(s,2H),6.79-6.83(m,2H),6.97(s,1H),7.01(s,1H),7.31-7.54(m.10H),9.4
700-1	5(s,1H)
	$1R(\mathrm{KBr})3600\cdot2800(\mathrm{br}), 1610, 1525, 1492, 1462, 1377, 1337, 1298, 1208, 1171, 1114, 1054, 1031cm^{-1}$
	m.p.141-143°C
1.25.2	1 HNMR(CDCl ₃) δ 3.56(s,3H),3.78(s,3H),3.80(s,3H),4.86(s,1H),5.26(s,2H),6.88-6.92(m,2H),6.92(s,1H),6.93(s.1H),7.24-7.29(s)
000-1	m,2H),7.36-7.41(m,1H),7.45-7.50(m,2H)
·	IR(KBr)3600-2800(br), 1612, 1524, 1491, 1463, 1448, 1378, 1263, 1205, 1177, 1153, 1071, 1053, 1026cm ⁻¹
	m.p.115-115.5℃
1.354	1HNMR(CDCl ₃) δ 3.19(s,3H),3.56(s,3H),3.79(s,3H),3.80(s,3H),5.27(s,2H),6.93(s,1H),6.94(s,1H),7.25-7.27(m.2H),7.32-7.400
100-1	m,3H),7.60-7.64(m,2H)
	$\underline{1R(KBr)3600.2800(br), 1524, 1492, 1463, 1379, 1266, 1210, 1174, 1154, 1126, 1082, 1053, 1029cm^{-1}}$
	m.p.139-140°C
1,355	1HNMR(CDCl ₃) & 1.77(d,J=0.6Hz,3H),1.81(d,J=0.9Hz,3H),3.82(s,6H),4.64(d,J=6.9Hz,2H),5.52-5.57(m,1H),6.95(s.1H),6.97(
	s,1H),7.04(t,J=8.4Hz,1H),7.26-7.31(m,1H),7.37(dd,J=2.1,12.6Hz,1H),7.73-7.77(m,2H),8.26-8.31(m,2H)
	IR(KBr)3600-2800(br), 1593, 1524, 1508, 1486, 1464, 1380, 1355, 1278, 1264, 1211, 1054, 1029cm ⁻¹

Table 74

	foam
C 10	1HNMR(CDCl ₃) δ 2.68(s, 3H), 3.13(s, 3H), 3.53(s, 3H), 3.78(s, 3H), 5.19(s, 2H), 6.83(s, 1H), 7.10-7.19(m, 3H), 7.30-7.50(m, 7H), 7.56-
1-350	7.64(m,2H)
	$IR(KBr)1607,1520,1482,1365,1232,1177,1119,1082,1013cm^{-1}$
	$^{1}\text{HNMR}(\text{CDCl}_{3}) \ \delta \ \ 2.39(\text{s},3\text{H}), 3.48(\text{s},3\text{H}), 3.75(\text{s},3\text{H}), 5.11(\text{s},2\text{H}), 5.67(\text{s},1\text{H}), 5.88(\text{s},1\text{H}), 6.46(\text{s},1\text{H}), 6.95(\text{d},\text{d},\text{J}=8.7\&1.8\text{Hz},1\text{H}), 6.99(\text{s},1\text{H}), 6.99(s$
I-357	$7.02-7.11(m,1H), 7.03(d,J=8.7Hz,1H), 7.07(d,J=1.8Hz,1H), 7.22(d,J=8.7Hz,2H), 7.34(d,J=8.7Hz,2H), 7.36-7.47(m,3H) \\ IR(KBr) = 1.84(d,J=8.7Hz,2H), 7.36-7.47(m,3H) \\ IR(KBr) = 1.84(d,J=8.7Hz,2H) \\ IR(KBr) = 1.84(d$
	$3546,3511,1611,1586,1517,1478,1405,1360,1318,1240,1109,1068,1007cm^{-1}$
	$^{1}\text{HNMR}(\text{CDCl}_{3}) \delta \ \ 3.03(\text{s,6H}), 3.48(\text{s,3H}), 3.77(\text{s,3H}), 5.15(\text{s,2H}), 5.71(\text{s,1H}), 6.73(\text{dd,J}=8.7\&1.8\text{Hz,1H}), 6.82(\text{d,J}=8.4\text{Hz,2H}), 6.9$
I-358	I-358 7(d,J=1.8Hz,1H),6.98(dJ=8.7Hz,1H),7.11(s,1H),7.33-7.48(m,5H),7.56(d,J=8.7Hz,2H),9.92(s,1H)
	$IR(KBr)3524,3447,1697,1612,1586,1525,1468,1364,1283,1257,1230,1201,1127,1103,1073,1020cm^{-1}$
	¹ HNMR(CDCl ₃) δ 3.04(s,6H),3.14(s,3H),3.48(s,3H),3.76(s,3H),5.17(s,2H),6.84(d,J=8.7Hz,2H),7.06-7.17(m,3H),7.34(d,J=1.8
I-359	Hz,1H),7.35-7.50(m,6H),7.55(d,J=8.7Hz,2H),10.08(s,1H)
	IR(KBr)1698,1610,1527,1470,1357,1290,1232,1183,1115,1083,1018cm ⁻¹
	¹ HNMR(CDCl ₃) δ 2.56(s, 3H), 3.02(s, 6H), 3.54(s, 3H), 3.76(s, 3H), 5.16(s, 2H), 5.67(s, 1H), 6.80(d, J=8.4Hz, 2H), 6.85(s, 1H), 6.91(d.
I-360	d,J=8.4&2.1Hz,1H),7.01(d,J=8.4Hz,1H),7.05(d,J=2.1Hz,1H),7.30-7.47(m,5H),7.55(d,J=8.7Hz,2H)
	IR(KBr)3542,3436,1605,1530,1483,1391,1360,1287,1253,1234,1169,1074,1016cm ⁻¹
	1HNMR(CDCl ₃) & 1.31(d,J=6.9Hz,6H),2.57(s,3H),2.97(quint,J=6.9Hz,1H),3.54(s,3H),3.76(s,3H),5.17(s,2H),5.68(s,1H),6.86(
1 26 1	s, 1H), 6.92 (dd, J = 8.4 & 2.1 Hz, 1H), 7.02 (d, J = 8.4 Hz, 1H), 7.05 (d, J = 2.1 Hz, 1H), 7.31 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.55 (d, J = 8.1 Hz, 2H), 7.34 - 7.46 (m, 5H), 7.34 - 7
100-1	Hz,2H)
	IR(KBr)3446,1606,1585,1522,1484,1457,1394,1356,1289,1257,1228,1172,1076,1018,1007cm ⁻¹

	1HNMR(CDCl3) 6 1.31(d,J=6.9Hz,6H),2.98(quint,J=6.9Hz,1H),3.46(s,3H),3.74(s,3H),5.15(s,2H),5.67(s,1H),5.92(s,1H),6.48(
0001	s,1H),6.97(dd,J=8.4&1.8Hz,1H),7.03(d,J=8.4Hz,1H),7.10(d,J=1.8Hz,1H),7.25(s,1H),7.31(d,J=7.8Hz,2H),7.34-7.49(m,5H),7.
706-1	57(d,J=7.8Hz,2H)
	$IR(KBr)3538,3505,3465,1610,1586,1552,1518,1584,1458,1398,1281,1288,1245,1198,1112,1071,1002cm^{-1}$
	1HNMR(CDCl ₃) δ 2.66(s,3H),3.06(s,3H),3.13(s,3H),3.57(s,3H),3.67(s,3H),3.78(s,3H),5.19(s,2H),6.44(s,1H),6.85(s,1H),7.15(
I-363	d,J=8.7Hz,1H),7.28-7.51(m,10H)
	IR(KBr)3443,1604,1518,1479,1364,1237,1177,1153,1118,1078,1014cm ⁻¹
	1HNMR(CDCl3) & 1.77(s,3H),1.81(s,3H),2.70(s,3H),3.06(s,3H),3.24(s,3H),3.58(s,3H),3.78(s,3H),4.64(d,J=6.6Hz,2H),5.49(t,J=6.41)
I-364	I.364 = 6.6Hz, 1H), 6.42(s, 1H), 6.85(s, 1H), 7.09(d, J=8.4Hz, 1H), 7.28-7.49(m, 5H)
	$IR(KBr)3432,3285,1604,1518,1479,1364,1328,1291,1269,1237,1177,1154,1117,1078cm^{-1}$
	11 HNMR(CDCl3) & 1.57(s,3H),1.67(s,3H),1.77(s,3H),1.81(s,3H),2.70(s,3H),2.96(s,3H),3.24(s,3H),3.53(s,3H),3.78(s,3H),4.32(
1.365	$\left. d, J = 7.2 Hz, 2H), 4.64 (d, J = 6.9 Hz, 2H), 5.25 (t, J = 6.9 Hz, 1H), 5.49 (t, J = 7.2 Hz, 1H), 6.85 (s, 1H), 7.09 (d, J = 8.7 Hz, 1H), 7.31.7.41 (m, 3H) \right \right\}$
000-1	,7.44-7.64(m,3H)
	IR(KBr)3433, 1600, 1517, 1474, 1365, 1339, 1237, 1178, 1153, 1118, 1078, 1014cm ⁻¹
	1HNMR(CDCl3) & 1.76(s,3H), 1.82(s,3H), 3.08(s,3H), 3.48(s,3H), 3.75(s,3H), 4.62(d,J=7.2Hz,2H), 5.54(t,J=7.2Hz,1H), 5.70(s,1H)
1-366	,5.85(s,1H),6.40(s,1H),6.46(s,1H),6.89-7.00(m,2H),7.05(d,J=1.5Hz,1H),7.43-7.51(m,3H)
	$IR(KBr)3437,1605,1585,1518,1482,1386,1323,1243,1152,1114,1071,1002cm^{-1}$
•	1HNMR(CDCl3) & 2.37(s,3H),3.21(s,3H),3.47(s,3H),3.64(s,3H),3.77(s,3H),3.84(s,3H),5.17(s,2H),6.63(s,1H),6.78(s,1H),7.10(s
1-367	,1H),7.20(d,J=8.1Hz,2H),7.40(d,J=8.1Hz,2H),7.41(d,J=9.3Hz,2H),7.70(d,J=9.3Hz,2H)
	IR(KBr)1702,1607,1589,1518,1468,1356,1216,1151,1067,1039,1018cm ⁻¹

Table 76

	1HNMR(CDCl ₃) & 2.37(s,3H),3.21(s,3H),3.48(s,6H),3.65(s,3H),3.73(s,3H),3.83(s,3H),4.32(d,J=11.4Hz,1H),4.51(d,J=11.4Hz,
1.368	1H),5.17(s,2H),6.93(s,1H),6.71(s,1H),6.88(s,1H),7.21(d,J=8.4Hz,2H),7.32-7.41(m,4H),7.73(d,J=8.4Hz,2H)
	m.p.125-127°C
1.369	¹ HNMR(CDCl ₃) δ 2.60(s, 3H), 3.52(s, 3H), 3.73(s, 3H), 5.84(s, 3H), 5.20(s, 2H), 6.83(s, 1H), 7.00-7.48(m, 12H)
	IR(KBr)3434,2943,1611,1580,1520,1498,1480,1398,1297,1268,1245,1179,1129,1079,1009cm ⁻¹
,	m.p.137-139°C
1.370	'HNMR(CDCl ₃) δ 3.43(s,3H),3.71(s,3H),3.85(s,3H),5.19(s,2H),5.92(s,1H),6.43(s,1H),7.01-7.51(m,12H)
	IR(KBr)3391,2937,1615,1583,1520,1503,1482,1464,1405,1359,1314,1292,1273,1239,1121,1108,1069,1005cm ⁻¹
	m.p.92-94°C
1 27 1	¹ HNMR(CDCl ₃) δ 1.76(s, 3H), 1.81(s, 3H), 2.70(s, 3H), 3.53(s, 3H), 3.73(s, 3H), 3.84(s, 3H), 4.63(d, J=6.9Hz, 2H), 5.53(m, 1H), 6.84(s, 1H)
1.0.1	1H),7.00-7.45(m,7H)
	$\underline{\rm IR(KBr)3433,2938,1609,1581,1523,1499,1480,1401,1368,1297,1268,1240,1178,1118,1079,1021cm^{-1}}$
	foam
1 279	¹ HNMR(CDCl ₃) δ 1.68(s, 3H), 1.74(d, J=0.6Hz, 3H), 2.50-2.59(m, 2H), 2.71(s, 3H), 3.53(s, 3H), 3.73(s, 3H), 3.84(s, 3H), 4.04(t, J=7.2
710-1	Hz,2H),5.23(m,1H),6.83(s,1H),7.00-7.42(m,7H)
	IR(CHCl ₃)3011,2938,1612,1581,1522,1500,1480,1465,1398,1370,1301,1268,1238,1209,1176,1119,1081,1017cm ⁻¹
	m.p.95-98°C
1 272	¹ HNMR(CDCl ₃) δ 1.76(s,3H),1.80(s,3H),3.43(s,3H),3.72(s,3H),3.85(s,3H),4.63(d,J=6.6Hz,2H),5.56(m,1H),5.92(s,1H),6.43(s,
0.10-1	1H),7.01-7.42(m,7H)
	IR(KBr)3318,2937,1612,1598,1500,1485,1464,1450,1361,1298,1275,1240,1104,1072,1011cm ⁻¹

Table 77

1.374 3(m,1H),5.91(s,1H),6.43(s,1H), 1R(KBr)3385,2933,1611,1583, 1R(KBr)3385,2933,1611,1583, 1.375 1.375 1.376 1HNMR(CDCl ₃) & 2.36(s,3H),2 1R(KBr)3433,2940,1609,1581, 1.376 1HNMR(CDCl ₃) & 2.37(s,3H),3 1R(KBr)3367,2936,1615,1583, 1.377 1.377 1.1H),7.38(d,J=8.9Hz,2H),7.6 1R(KBr)1732,1523,1474,1368, 1.378 1.378 2.3,1.8Hz,1H),7.26(t,J=8.9Hz, 3.61(s,1H),12.9(brs,1H) 1R(KBr)3383,1735,1705,1610, 1.378 1.377 1.378	HNMR(CDCl ₃) δ 1.68(s,3H),1.74(d,J=0.6Hz,3H),2.50-2.60(m,2H),3.43(s,3H),3.71(s,3H),3.85(s,3H),4.04(t,J=7.2Hz,2H),5.2 (3(m,1H),5.91(s,1H),6.43(s,1H),7.00-7.42(m,7H) IR(KBr)3385,2933,1611,1583,1521,1503,1485,1466,1403,1358,1299,1276,1241,1122,1104,1071,1011cm ⁻¹ m.p.105-107℃ HNNMR(CDCl ₃) δ 2.36(s,3H),2.59(s,3H),3.52(s,3H),3.73(s,3H),3.84(s,3H),5.16(s,2H),6.83(s,1H),7.00-7.42(m,11H) IR(KBr)3433,2940,1609,1581,1522,1499,1481,1461,1401,1366,1296,1269,1240,1178,1117,1079,1021,1011cm ⁻¹ m.p.142-144℃ HNNMR(CDCl ₃) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) IR(KBr)3367,2936,1615,1583,1520,1502,1482,1464,1447,1405,1359,1317,1291,1274,1239,1121,1109,1070,1009cm ⁻¹ m.p.174-176℃ HNNMR(CDCl ₃) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(
	(s,1H),6.43(s,1H),7.00-7.42(m,7H) 5,2933,1611,1583,1521,1503,1485,1466,1403,1358,1299,1276,1241,1122,1104,1071,1011cm ⁻¹ C Cl ₃) & 2.36(s,3H),2.59(s,3H),3.52(s,3H),3.73(s,3H),3.84(s,3H),5.16(s,2H),6.83(s,1H),7.00-7.42(m,11H) S,2940,1609,1581,1522,1499,1481,1461,1401,1366,1296,1269,1240,1178,1117,1079,1021,1011cm ⁻¹ Cl ₃) & 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) Cl ₃) & 2.37(s,3H),3.42(s,3H),3.71(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(Cl ₃) & 3.21(s,3H),3.41(s,3H),3.63(s,3H),5.7(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(Cl ₃)
	5,2933,1611,1583,1521,1503,1485,1466,1403,1358,1299,1276,1241,1122,1104,1071,1011cm ⁻¹ C C C C C C C C S C S C S C S C S C S
	C Cl ₃) δ 2.36(s,3H),2.59(s,3H),3.52(s,3H),3.73(s,3H),3.84(s,3H),5.16(s,2H),6.83(s,1H),7.00-7.42(m,11H) 3,2940,1609,1581,1522,1499,1481,1461,1401,1366,1296,1269,1240,1178,1117,1079,1021,1011cm ⁻¹ C Cl ₃) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) Cl ₃) δ 2.37(s,3H),3.41(s,3H),3.63(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(cl ₃)
	Cl ₃) δ 2.36(s,3H),2.59(s,3H),3.52(s,3H),3.73(s,3H),3.84(s,3H),5.16(s,2H),6.83(s,1H),7.00-7.42(m,11H) 3,2940,1609,1581,1522,1499,1481,1461,1401,1366,1296,1269,1240,1178,1117,1079,1021,1011cm ⁻¹ Cl ₃) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) Cl ₃) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(cl ₃) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(cl ₃)
	3,2940,1609,1581,1522,1499,1481,1461,1401,1366,1296,1269,1240,1178,1117,1079,1021,1011cm ⁻¹ C Cl ₁) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) Cl ₂) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),5.14(s,2H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) Cl ₃) δ 2.37(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(
	C Cl ₃) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) 7.2936,1615,1583,1520,1502,1482,1464,1447,1405,1359,1317,1291,1274,1239,1121,1109,1070,1009cm ⁻¹ °C Cl ₃) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(
	Cl ₃) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) 7,2936,1615,1583,1520,1502,1482,1464,1447,1405,1359,1317,1291,1274,1239,1121,1109,1070,1009cm ⁻¹ °C Cl ₃) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(
	7,2936,1615,1583,1520,1502,1482,1464,1447,1405,1359,1317,1291,1274,1239,1121,1109,1070,1009cm ⁻¹ C Cl ₃) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(
	C Cl ₃) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(
	Cl3) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(
	m,1H),7.38(d,J=8.9Hz,2H),7.62(d,J=7.8Hz,1H),7.71(d,J=8.9Hz,2H),7.76(dt,J=7.8,1.5Hz,1H),8.60(m,1H)
	$2,1523,1474,1368,1148,1061,863,845,790$ cm $^{-1}$
	¹ HNMR(DMSO-d ₆) δ 3.32(s,3H),3.73(s,3H),5.28(s,2H),6.87(d,J=8.7Hz,2H),7.00(s,1H),7.04(dd,J=8.9,1.8Hz,1H),7.16(dd,J=1
,9.61(s,1H),12.9(br/ IR(KBr)3383,1735, m.p.137-138°C	4),7.26(t,J=8.9Hz,1H),7.39(m,1H),7.57(d,J=8.7Hz,2H),7.58(d,J=7.8Hz,1H),7.89(dt,J=7.8,1.5Hz,1H),8.61(m,1H)
IR(KBr)3383,1735, m.p.137-138°C	
m.p.137-138°C	IR(KBr)3383,1735,1705,1610,1522,1471,1272,1226,1059,1014,838,762cm ⁻¹
	J.
1 379 HNMK(CDCl3) 0	¹ HNMR(CDCl ₃) δ 1.77(s,3H),1.82(s,3H),3.46(s,3H),3.79(s,3H),4.64(d,J=4.6Hz,1H),5.56(t,J=4.6Hz,1H),6.92-7.20(m,6H),7.6
	1(dd,J=3.6,5.8Hz,2H),9.96(Brs,1H)
IR(KBr)3434,2966,	$IR(KBr)3434,2966,2935,2839,1702,1695,1521,1466,1378,1299,1287,1272,1240,1012,840 cm^{-1}$

	m.p.98-99°C
006.1	1HNMR(CDCl ₃).6 2.37(s,3H),3.45(s,3H),3.78(s,3H),5.15(s,2H),6.93-7.26(m,4H),7.36(d,J=7.8Hz,2H),7.62(dd,J=4.0,8.8Hz,2
1-380	H),9.94(s,1H)
	$IR(KBr)3446,2933,2845,1699,1521,1473,1463,1381,1293,1261,1238,1221,1131,803cm^{-1}$
	m.p.118-119°C
-	1HNMR(CDCl ₃) δ 1.69(s, 3H), 1.74(s, 3H), 2.54(dt, J=5.0, 7.8Hz, 2H), 3.45(s, 3H), 3.78(s, 3H), 4.05(t, J=7.2Hz, 2H), 5.24(t, J=4.4Hz,
1-381	1H),6.95-7 16(m,6H),7.61(dd,J=3.4,8.8Hz,2H),9.95(brs,1H)
	IR(KBr)3433,2959,2930,2842,1701,1602,1522,1464,1379,1303,1263,1222,1132,1018cm ⁻¹
	m.p.93-94°C
000 1	¹ HNMR(DMSO-d ₆) δ 1.74(s,3H),1.78(s,3H),3.32(s,3H),3.71(s,3H),4.62(d,J=7.0Hz,2H),5.48(t,J=5.8Hz,1H),6.91(s,1H),7.09-7
1-307	.35(m,2H),7.64-7.71(m,2H)
	$IR(KBr)3433,2976,2937,1707,1604,1520,1472,1376,1300,1265,1226,1160,1131,1060,839cm^{-1}$
	m.p.98-99°C
I-383	1HNMR(DMSO-d6) δ 2.32(s,3H),3.31(s,3H),3.70(s,3H),5.13(s,2H),6.88(s,1H),7.14-7.39(m,5H),7.63-7.70(m,2H)
	IR(KBr)3433,2981,2937,1704,1603,1520,1470,1375,1301,1266,1226,1159,1061,839cm ⁻¹
	lio
1 204	¹ HNMR(DMSO-d ₆) δ 1.68(s,3H), 1.74(s,3H), 2.48-2.56(m,2H), 3.57(s,3H), 3.77(s,3H), 3.98(t,J=4.8Hz,2H), 5.26(t,J=4.2Hz,1H),
1-004	6.84(s,1H),7.05-7.36(m,5H),7.63-7.70(m,2H)
	IR(KBr)3433,2979,2938,1726,1603,1522,1470,1376,1301,1264,1226,1160,1132,1080,1058,840cm ⁻¹
	m.p.137·138℃
1 285	$ ^{1}\text{HNMR}(\text{CDCl}_{3}) \delta \ 1.77(\text{s}, 3\text{H}), 1.82(\text{s}, 3\text{H}), 2.55(\text{s}, 3\text{H}), 3.21(\text{s}, 3\text{H}), 3.57(\text{s}, 3\text{H}), 3.78(\text{s}, 3\text{H}), 4.56(\text{d}, J=7.0\text{Hz}, 2\text{H}), 5.52(\text{t}, J=7.4\text{Hz}, 1\text{Hz}, 1H$
1-00-1),6.84(s,1H),7.02(d,J=8.8Hz,2H),7.34-7.40(m,4H),7.70(d,J=8.8Hz,2H)
	IR(KBr)3434,2938,1607,1519,1366,1244,1174,1151,1072,871,796cm ⁻¹

Table 79

	m.p.169-170°C
000	$^{1}\text{HNMR}(\text{CDCI}_{3}) \ \delta \ 2.48 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 5.08 (s, 2H), 6.84 (s, 1H), 7.07 (d, J=5.8 \text{Hz}, 2H), 7.19-7.39 (m, 4H), 7.07 (s, 2H), 2.48 (s, 2H), 3.21 (s, 2H), 3.24 (s$
1-386	70(d,J=6.0Hz,2H)
	$IR(KBr)3432,3016,2935,1605,1519,1479,1368,1357,1233,1176,1151,1076,876,843,798cm^{-1}$
	m.p.140-141°C
6	$^{\rm i} {\rm HNMR}({\rm CDC}_{13}) \ \delta \ \ 1.68(s,3H),1.75(s,3H),2.51(dt,J=4.4,4.6Hz,2H),2.55(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),3.97(t,J=4.8H)$
1.387	z,2H),5.26(t,J=4.0Hz,1H),6.84(s,1H),6.99(d,J=5.8Hz,2H),7.34·7.39(m,4H),7.70(d,J=5.8Hz,2H)
	$IR(KBr)3445,2937,1608,1519,1480,1391,1361,1351,1237,1177,1154,1077,962,871,862,800cm^{-1}$
	m.p.124-125°C
1 200	1HNMR(DMSO-dc) δ 1.73(s,3H),1.75(s,3H),3.30(s,3H),3.65(s,3H),4.54(d,J=6.6Hz,2H),5.47(t,J=6.4Hz,1H),6.40(s,1H),6.82-6
1-388	.94(m,4H),7.20(d,J=8.6Hz,2H),7.44(d,J=8.2Hz,2H)
	IR(KBr)3411,2934,1608,1523,1487,1396,1231,1175,1105,1072,996,898cm ⁻¹
	m.p.93-94°C
- 0	1HNMR(DMSO-d6) & 2.32(s,3H),3.32(s,3H),3.64(s,3H),5.08(s,2H),6.40(s,1H),6.84(d,J=8.6Hz,2H),6.98(d,J=8.6Hz,2H),7.19-7
1.389	.23(m,4H),7.34-7.46(m,4H)
	IR(KBr)3398,2933.,1609,1523,1486,1461,1398,1235,1174,1119,1071,997,829cm ⁻¹
	lio
1	¹ HNMR(DMSO-d ₆) δ 1.72(s, 3H), 1.74(s, 3H), 2.52(dt, J=4.8, 5.0Hz, 2H), 3.24(s, 3H), 3.58(s, 3H), 4.06(t, J=7.2Hz, 2H), 5.24(t, J=4.4)
066-1	Hz,1H),6.80-6.95(m,4H),7.22(d,J=8.4Hz,2H),7.46(d,J=8.2Hz,2H)
	IR(KBr)3340,2934,1608,1522,1486,1396,1285,1230,1175,1106,1072,996,828cm ⁻¹
	$^{1}\text{HNMR}(\text{CDCl}_{3}+\text{CD}_{3}\text{OD}) \ \delta \ \ 3.05(\text{s},3\text{H}), 3.48(\text{s},3\text{H}), 3.75(\text{s},3\text{H}), 5.16(\text{s},2\text{H}), 5.97(\text{s},1\text{H}), 6.02(\text{s},1\text{H}), 6.47(\text{s},1\text{H}), 6.94(\text{d}.\text{d},\text{J}=8.4\&1.8) \ \text{HNMR}(\text{CDCl}_{3}+\text{CD}_{3}\text{OD}) \ \delta \ \ 3.05(\text{s},3\text{H}), 3.48(\text{s},3\text{H}), 3.75(\text{s},3\text{H}), 5.16(\text{s},2\text{H}), 5.97(\text{s},1\text{H}), 6.02(\text{s},1\text{H}), 6.47(\text{s},1\text{H}), 6.94(\text{d}.\text{d},\text{J}=8.4\&1.8) \ \text{HNMR}(\text{CDCl}_{3}+\text{CD}_{3}\text{OD}) \ \delta \ \ 3.05(\text{s},3\text{H}), 3.48(\text{s},3\text{H}), 3.75(\text{s},3\text{H}), 5.16(\text{s},2\text{H}), 5.97(\text{s},1\text{H}), 6.02(\text{s},1\text{H}), 6.47(\text{s},1\text{H}), 6.94(\text{d}.\text{d},\text{J}=8.4\&1.8) \ \text{HNMR}(\text{CDCl}_{3}+\text{CD}_{3}\text{OD}) \ \delta \ \ 3.05(\text{s},3\text{H}), 3.48(\text{s},3\text{H}), 5.16(\text{s},2\text{H}), 5.16(\text{s},2\text{H}), 6.94(\text{s},3\text{H}), 6.94($
1.391	Hz,1H),7.04(d,J=8.4Hz,1H),7.07(d,J=1.8Hz,1H),7.22-7.52(m,9H)
	IR(KBr)3548,3357,1603,1589,1520,1487,1460,1445,1410,1329,1286,1247,1153,1115,1077,1010cm ⁻¹

Table 80

	1HNMR(CDCl3) & 2.37(s,3H),2.77-2.88(broad,1H),3.47(s,3H),3.64(s,3H),3.72(s,3H),3.82(s,3H),4.32(d.d,J=11.1&0.6Hz,1H),
1-392	4.45-4.56(broad,1H),4.92(s,1H),5.16(s,2H),6.70(d,J=9.3Hz,2H),6.88(s,1H),6.92(d,J=9.0Hz,2H),7.22(d,J=8.4Hz,2H),7.38(d,J=8.4Hz,2H),7.56(d,J=9.0Hz,2H)
	IR(KBr)3476,1610,1519,1476,1463,1386,1265,1215,1074,1041,1010cm ⁻¹
	foam
	'HNMR(CD ₃ OD) & 2.34(s,3H),3.38(s,3H),3.68(s,3H),4.00(dd,J=9.9,8.7Hz,1H),4.17(dd,J=9.9,3.0Hz,1H),5.06(dd,J=8.7,3.0Hz
1.393	, 111), 6.43(s, 111), 6.78(dd, J=8.7, 1.8, 111), 6.85(d, J=8.714z, 211), 6.88(d, J=1.814z, 111), 6.91(d, J=8.414z, 111), 7.20(d, J=8.114z, 211), 7.30(d, J=8.114z, 211), 7.3
	6(d,J=8.1Hz,2H),7.46(d,J=8.7Hz,2H)
	IR(Nujol)3367,1655,1612,1586,1523,1489,1459,1254,1225,1115,1072,1015,941,817cm ⁻¹
	foam
	¹ HNMR(CD ₃ OD) δ 3.38(s,3H),3.67(s,3H),4.02(dd,J=10.2,9.0Hz,1H),4.20(dd,J=10.2,3.3Hz,1H),5.11(dd,J=9.0,3.3Hz,1H),6.4
1-394	$3(s,1H),6.78(dd,J=8.4,2.1,1H),6.85(d,J=8.7Hz,2H),6.88(d,J=2.1Hz,1H),6.91(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H),7.30 \\ \sim 7.50(d,J=8.7Hz,2H),7.30 \\$
	m,5H)
	IR(Nujol)3368,1655,1612,1587,1523,1489,1456,1254,1225,1114,1072,1014,941,825,764cm ⁻¹
	foam
1 205	$^{1}\text{HNMR}(\text{CDCl}_{3}) \ \delta \ \ 2.48(\text{s},3\text{H}), 2.82(\text{s},3\text{H}), 3.16(\text{s},3\text{H}), 3.22(\text{s},3\text{H}), 3.54(\text{s},3\text{H}), 6.85(\text{s},3\text{H}), 7.34 \\ \sim 7.38(\text{m},2\text{H}), 7.38(\text{d},3\text{H}), 7.38(\text{d},3\text{H}), 7.38(\text{m},2\text{H}), 7.38(\text{d},3\text{H}), 7.38(\text{m},2\text{H}), 7.38(\text{d},3\text{H}), 7.38$
1-090	8.1Hz,2H),7.39(d,J=8.7Hz,2H),7.46(d,J=1.8Hz,1H),7.46(d,J=8.7Hz,2H),7.82(d,J=8.1Hz,2H)
	IR(Nujol)1597,1514,1479,1464,1177,1152,1085,969,883,846,797,729cm ⁻¹
	foam
306.1	$^{\rm i} HNMR (CDC1_3) \ \delta 2.85 (s,3H), 3.14 (s,3H), 3.22 (s,3H), 3.54 (s,3H), 3.77 (s,3H), 6.85 (s,1H), 7.36 (m,2H), 7.36 (m,2H), 7.39 (d,J=8.7 Hz,2H), 7.45, (m,2H), 7$
000	m,1H),7.60(m,2H),7.66(d,J=8.7Hz,2H),7.74(m,1H),7.94(m,2H)
	IR(Nujol)1612,1584,1514,1479,1451,1179,1152,1085,969,949,846,797,737cm-1

Table 81

	foam
1 207	'HNMR(CDCl ₃) δ 2.73(s,3H),3.21(s,6H),3.55(s,3H),3.77(s,3H),5.20(s,2H),6.84(s,1H),7.16(brs,1H),7.22(d,J=8.1Hz,1H),7.33 (
166-1	d,J=2.4Hz,1H),7.37(brs,2H),7.38(d,J=8.7Hz,2H),7.65(brs,1H),7.67(d,J=8.7Hz,2H)
	IR(Nujol)1608,1519,1480,1464,1176,1151,1080,972,876,846,798cm ⁻¹
	foam
1 300	1HNMR(CDCl3) & 2.91(s,3H),3.19(s,3H),3.22(s,3H),3.54(s,3H),3.78(s,3H),5.26(s,2H),5.34(s,2H),7.04(brs.1H),7.05(s,2H),7.1
1.000	$2(brs, 1H), 7.39(d, J=8.7Hz, 2H), 7.36 \sim 7.43(m, 3H), 7.67(d, J=8.7Hz, 2H)$
	IR(Nujol) 1608, 1519, 1480, 1463, 1176, 1151, 1079, 972, 876, 799cm ⁻¹
	m.p.203.205°C
1.300	¹ HNMR(DMSO-d ₆) δ 2.87(s, 3H), 3.35(s, 3H), 3.45(s, 3H), 3.52(s, 3H), 3.78(s, 3H), 5.39(s, 2H), 7.07(s, 1H), 7.08(d, J=3.9Hz, 1H), 7.16
	(d,J=3.9Hz,1H),7.31(dd,J=9.0,1.8Hz,1H),7.33(s,1H),7.42(d,J=9.0Hz,1H),7.49(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H)
-	IR(Nujol)1609,1520,1481,1455,1231,1080,1013,984,947,878,832,798cm ⁻¹
	foam
I-400	1HNMR(CDCl ₃) δ 2.72(s, 3H), 3.14(s, 3H), 3.21(s, 3H), 3.55(s, 3H), 3.77(s, 3H), 5.14(s, 2H), 6.84(s, 1H), 7.11(d, J=8.7Hz, 1H), 7.34(dd
	J=2.1,8.7Hz,1H),7.34(d,J=8.4Hz,2H),7.37(d,J=8.4Hz,2H),7.41(d,J=9.1Hz,1H),7.54(d,J=8.4Hz,9H),7.34(d,J=8.4Hz,2H),7.34(d,J=8.4Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9Hz,9
	foam
1.401	1HNMR(CDCl3) & 2.83(s,3H),3.14(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),5.26(s,2H),6.85(s,1H),7.24(d,J=8.4Hz,1H),7.38(d
	J=8.4Hz,1H),7.41(dd,J=2.1,8.4Hz,1H),7.44(d,J=2.1Hz,1H),7.67(d,J=8.4Hz,2H)
	IR(KBr)1609,1523,1509,1481,1367,1402,1178,1152,1080.973,943.876.798cm ⁻¹

Table 82

	foam
	1HNMR(CDCl ₃) δ 2.68(s, 3H), 3.14(s, 3H), 3.21(s, 3H), 3.55(s, 3H), 3.66(s, 2H), 3.71(s, 3H), 3.78(s, 3H), 5.18(s, 2H), 6.84(s, 1H), 7.14(s, 2H), 6.84(s, 2H),
1-402	d,J=8.4Hz,1H),7.32(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.37(d,J=8.4Hz,2H),7.39(d,J=2.1Hz,1H),7.42(d,J=8.4Hz,2H),7
	.67(d,J=8.4Hz,2H)
	IR(KBr)1736,1610,1519,1481,1365,1177,1151,1079,876,817,798cm ⁻¹
	foam
	1HNMR(CDCl ₃) § 2.70(s,3H),3.16(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.24(s,2H),6.84(s,1H),7.18(d,J=8.4Hz,1H),7.36(dd
I-403	J=1.5,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.41(d,J=1.5Hz,1H),7.46(m,2H),7.54(d,J=8.1Hz,2H),7.62(m.3H),7.64(d,J=8.1Hz,2H)
	7.68(d,J=8.4Hz,2H)
·	IR(KBr)1609,1519,1481,1365,1177,1151,1079,1014,876,818,797cm ⁻¹
	m.p.128-130°C
	¹ HNMR(CDCl ₃) δ 2.75(s,3H),2.92(s,3H),3.18(t,J=6.9Hz,2H),3.21(s,3H),3.55(s,3H),3.77(s,3H),4.34(t,J=6.9Hz,2H),6.81(s,1H
I-404),7.08(d,J=8.4Hz,1H),7.29(m,2H),7.32(br.s,3H),7.35(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.39(d,J=2.1Hz,1H),7.36(d,J=8.4Hz,2H),7.38(d,J=8.4Hz,2Hz,2H),7.38(d,J=8.4Hz,2Hz,2H),7.38(d,J=8.4Hz,2Hz,2H),7.38(d,J=8.4Hz,2Hz,2H),7.38(d,J=8.4Hz,2Hz,2H),7.38(d,J=8.4Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2
	8.4Hz,2H)
	IR(KBr)1609,1520,1481,1364,1177,1151,1080,872,815,797cm ⁻¹
	foam
	1 HNMR(CDCl ₃) δ 1.71(d,J=6.3Hz,3H),2.45(br.s,3H),3.20(s,3H),3.28(s,3H),3.53(s,3H),3.75(s,3H),5.43(g,J=6.3Hz,1H) 6.81(s,3Hz,1H)
I-405	1H),6.90(d,J=8.4Hz,1H),7.16(dd,J=2.1,8.4Hz,1H),7.30(m,1H),7.36(d,J=2.1Hz,1H),7.37(d,J=8.4Hz,2H),7.35,7.41(m,4H),7.6
	6(d,J=8.4Hz,2H)
	IR(KBr)1609,1518,1480,1365,1177,1151,1078.874.818.798cm ⁻¹

Table 83

	foam
I-406	AR(CDCl ₃) & 1.02(t,J=9.(
	foam
I-407	"HNMR(CDCl ₃) & 2.46(s,3H),3.07(s,3H),3.20(s,3H),3.54(s,3H),3.76(s,3H),6.33(s,1H),6.82(s,1H),6.99(d,J=9.0Hz.1H),7.19(dd
	,J=2.1,9.0Hz,1H),7.26-7.40(m,9H),7.43-7.47(m,4H),7.66(d,J=8.4Hz,2H) IR(KBr)1607,1518,1481,1364,1177,1151,1081,873,822,798cm ⁻¹
	m.p.179-180℃
	'HNMR(CDCl ₃) § 1.69(d,J=6.3Hz,3H),234(br.s,3H),2.45(s,3H),3.20(s,3H),3.27(s,3H),3.54(s,3H) 3.75(s,3H) 5.40(c,1-6.3H-
1.408	,1H),6.81(s,1H),6.92(d,J=8.7Hz,1H),7.15(d,J=8.7Hz,2H),7.16(dd,J=2.1,8.4Hz,1H),7.27(d,J=8.7Hz,1H),7.35(d,J=8.7Hz,1H)
	7.37(d,J=8.4Hz,2H),7.66(d,J=8.4Hz,2H)
	IR(KBr)1609, 1518, 1480, 1365, 1177, 1151, 1078, 874, 819, 797cm ⁻¹
	m.p.243·244°C
	1HNMR(DMSO-d6) \$ 3.30(s,3H),3.64(s,3H),5.19(s,2H),6.39(s,1H),6.64(dd,J=1.8.8.4Hz,1H) 6.77(d.1=1 8Hz,1H) 6.32(1-6
I-409	4Hz,2H),6.97(d,J=8.4Hz,1H),7.37(t,J=7.5Hz,1H),7.44(d,J=8.4Hz,2H),7.48(t,J=8.4Hz,2H),7.60(d,J=8.4Hz,2H),7.48(t,J=8.4Hz,2Hz,2H),7.48(t,J=8.4Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2
	5H)
	$IR(KBr)3421, 1610, 1523, 1488, 1463, 1403, 1176, 1115, 1072, 821cm^{-1}$
	foam
1.410	1HNMR(CDCl3) & 3.18(t, J=6.9Hz, 2H), 3.45(s, 3H), 3.73(s, 3H), 4.31(t, J=6.9Hz, 2H), 6.44(s, 1H), 6.91(d, J=8.4Hz, 9H), 6.94(p, z, s,
· ·	H),7.03(br.s,1H),7.23-7.37(m,5H),7.53(d,J=8.4Hz,2H)
	IR(KBr)3434,1612,1587,1523,1489,1455,1403.1250.1113.1070.1011.895.8151
	10,1011,020,010 mg/s

Table 84

	foam
1.411	"HNMR(CDCl::) 8 1.70(d,J=6.0Hz,3H),3.44(s,3H),3.72(s,3H),5.36(q,J=6.0Hz,1H),6.42(s,1H),6.78(d,J=8.1Hz,1H),6.81(dd,J=
	1.5,8.7Hz,1H),6.91(d,J=8.4Hz,2H),7.06(d,J=1.5Hz,1H),7.26-7.42(m,4H),7.51(d,J=8.4Hz,2H) IR(KBr)3472.1612.1587 1523 1488 1454 1403 1948 1113 1676 1611 661
· 	foam
1.412	¹ HNMR(CDCl ₃) & 1.03(t,J=7.2Hz,3H),1.94(m,1H),2.06(m,1H),3.43(s,3H),3.72(s,3H),5.08(dd,J=7.2,5.4Hz,1H),6.43(s,1H),6.7 (s,3H),5.08(dd,J=7.2,5.4Hz,1H),6.43(s,1H),6.7 (s,3H),7.05(d,J=1.8Hz,1H),7.05(d,J=1.8Hz,1H),7.25-7.38(m,5H),7.51(d,J=8.4Hz,2H)
	11.(11.17.17.17.17.11.17.1.19.24,1403,1247,1113,1070,1011,826,811cm ⁻¹
	foam
1.413	1 HNMR(CDCl ₃) δ 3.44(s,3H),3.73(s,3H),6.25(s,1H),6.43(s,1H),7.26(m,2H),6.90(d,J=8.4Hz,2H),7.08(d,J=2.1Hz,1H),7.90.7.4
	3(m,10H),7.51(d,J=8.4Hz,2H)
	IR(KBr)3432,1611,1523,1489,1454,1402,1226,1110,1069,1011,8951
	foam
1,414	"HNMR(CDCl ₃) δ 1.69(d,J=6.3Hz,3H),235(s,3H),3.44(s,3H),3.72(s,3H) 5.33(a,J=6.3Hz,1H),6.49(z,1H),6.90(z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,z,
	(4, 3) = 8.4 Hz, 2H), 7.05 (br.s, 1H), 7.18 (d, $3 = 7.8$ Hz, 2H), 7.29 (d, $3 = 7.8$ Hz, 2H), 7.51 (d, $3 = 9.4$ Hz, 2H), 9.90
	IR(KBr)3433,1612,1522,1488,1459,1403,1248,1113,1069,1011,817,1
	m.p.164-167°C
1.415	1HNMR(CDCl ₃) § 3.79(s,3H),3.80(s,3H),4.81(brs,1H),5.29(s,2H),6.88-6.94(m.4H) 7 16/d.1=8 7H7 1H) 7 39 7 59/m. 7H3
	(dd,J=2.1,8.7Hz,1H),8.10(d,J=2.1Hz,1H)
	IR(KBr)3513,2930,1618,1529,1497,1448,1387,1354,1296,1257,1211,1168,1001,1064,1094,1094,11
	, 1004,1024cm

Table 85

	m.p.155-159°C
1.416	1HNMR(CDCl ₃) & 3.20(s,3H),3.39(s,3H),3.82(s,3H),3.83(s,3H),6.95(s,1H),6.96(s,1H) 7 34.7 38(m, 9H) 7 58 7 64/m 3H) 7 62/m
7.170	dd,J=2.1,8.4Hz,1H),8.26(d,J=2.1Hz,1H)
	IR(KBr)3433,2944,1539,1519,1487,1358,1216,1176,1150,1086,1057,1031cm-1
	m.p.124-126°C
1.417	'HNMR(CDCl ₃) δ 3.19(s,3H),3.80(s,6H),5.30(s,2H),6.93(s,1H),6.94(s,1H) 7 18(d,1≡9 0H ² 1H) 7 29 7 59/11 711 21 21 21 21 21 21 21 21 21 21 21 21 2
<u> </u>	2H), 7.73(dd, J=2.1, 9.0Hz, 1H), 8.10(d, J=2.1Hz, 1H)
	IR(KBr)3433,2937,1619,1531,1491,1465,1450,1358,1290,1256,1211,1176,1150,1088,1068,1069,1069,1069,1069,1069,1069
	m.p.151-153°C
1.418	1HNMR(CDCl ₃) & 3.18(s,3H),3.781(s,3H),3.784(s,3H),5.14(s,2H) 6 90.7 00(m,5H) 7 91 7 50(m,7H) 7 91 7 50(m,7H)
	IR(KBr)3480,3383,2930,1610,1523,1489,1467,1383,1358,1330,1911,1175,1147,1064,,1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	m.p.198-200°C
I-419	¹ HNMR(CDCl ₃) δ 3.77(s,6H),5.13(s,2H),6.86-7.00(m.7H) 7.34-7.50(m.7H)
	IR(KBr)3403,3327,1611,1592,1525,1492,1462,1444,1384,1318,1273,1900,1178,1146,1146,1384,1384,1318,1273,1900,1178,1146,1146,1146,1146,11384,1384,1318,1900,1178,1146,1146,1146,1146,1146,1146,1146,114
	m.p.168-171°C
1.420	1HNMR(CDCl3) & 2.99(s,3H),3.19(s,3H),3.80(s,3H),3.81(s,3H),5.16(s.2H) 6.83(hrs 1H) 6.92(s.1H) 6.92(s.1H) 6.92(s.1H)
	z,1H),7.32.7.46(m,8H),7.60.7.64(m,2H),7.81(d,J=2.1Hz,1H)
	IR(KBr)3403,3327,1611,1592,1525,1492,1462,1444,1384,1318,1973,1909,1178,1178,116,116,116,116,116,116
	m.p.168-171°C
1.421	1HNMR(CDCl3) & 3.19(s,3H),3.80(s,3H),5.23(s,2H),6.93(s,1H),6.93(s,1H),6.97(s,1H),7.07(4,1–8.7H-11),7.07(4,1–8.7H-11)
	IR(KBr)3401,1723,1613,1595,1549,1518,1486,1385,1365,1330,1990,1956,1919,3151,111,111,111,111,111,111
	- 1-101,101,101,101,101,100,100,100,101,111,1111,1111,101,

	m.p.159·160°C
	"HNMR(CDCl ₃) & 1.69(s,3H),1.74,(s,3H),2.55(q,J=7.2Hz,2H),2.73(s,3H),3.22(s,3H),3.55(s,3H),3.77(s,3H),4.06(+ 1-7.9H-6)
1.422	H),5.24(t,J=7.2Hz,1H),6.85(s,1H),7.07(d,J=8.6Hz,1H),7.39(d,J=8.7Hz,2H),7.55(dd,J=8.9,1Hz,1Hz,7.97,19.11,19.1
	8(d, J=8.7Hz, 2H)
	IR(KBr)1515,1481,1359,1325,1175,1140,1079,870,799cm ⁻¹
	m.p.180-182°C
1.493	1HNMR(CDCl ₃) § 1.76(s,3H), 1.81, (s,3H), 2.71(s,3H), 3.22(s,3H), 3.55(s,3H), 3.78(s,3H), 4.06(d, 1-6.9H, 9H), 5.50(d, 1-6.9H, 9H)
071-1	H),6.85(s,1H),7.09(d,J=8.7Hz,1H),7.39(d,J=8.7Hz,2H),7.55(dd,J=8.7,2.0Hz,1H),7.64(d,J=9.0Hz,1H),7.66(1,J=0.7Hz,1H),7.39(d,J=8.7Hz,2H),7.55(dd,J=8.7,2.0Hz,1H),7.64(d,J=8.7Hz,1H),7.65(dd,J=8.7Hz,1H),7.64(d,J=8.7Hz,1Hz),7.64(d,J=8.7Hz,1Hz),7.64(
	IR(KBr)1514,1479,1360,1241,1174,1132,1078.866.800cm ⁻¹
	m.p.176-178°C
1.494	1 HNMR(CDCl ₃) δ 2.64(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),5.26(s,2H) 6.85(s,1H) 7.14(4.1=8.6Hz,1H),7.22,7.46(m,2H),7.22
171.1	54(dd,J=8.6,2.1Hz,1H),7.66-7.70(m,3H)
	IR(KBr)1517,1482,1367,1327,1178,1150,1135,1081,878,797cm-1
	m.p.199-200°C
1.495	¹ HNMR(CDCl ₃) δ 2.37(s, 3H), 2.63(s, 3H), 3.21(s, 3H), 3.55(s, 3H), 3.78(s, 3H), 5.21(s, 2H), 6.84(s, 1H), 7.13(4.1–s, 7Hz, 11), 7.55(s, 3H)
	J=8.0Hz,2H),7.34(d,J=8.0Hz,2H),7.38(d,J=9.0Hz,2H),7.53(dd,J=8.7.1.8Hz,1H),7.66(d,J=1.1.9Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.66(d,J=8.7.1.8Hz,1H),7.6(d,J=8.7.1.8Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1
	IR(KBr)1517,1481,1366,1326,1255,1177,1151,1082,871,798cm ⁻¹
	amorphous
	¹ HNMR(CDCl ₃) δ 1.68(s,3H),1.73(s,3H),2.54(q,J=7.2Hz,2H),3.44(s,3H).3.75(s,3H) 4 05(t, J=7.9Hz,9H) 5 07(z, 1H) 5 0.00 1
1.426	7.2Hz,1H),6.02(s,1H),6.45(s,1H),6.92(d,J=8.6Hz,2H),7.41(d,J=8.6Hz,1H),7.53(d,J=8.6Hz,2H),7.41(d,J=8.6Hz,1H),7.53(d,J=8.6Hz,2H),7.41(d,J=8.6Hz,1H),7.53(d,J=8.6Hz,2H),7.41(d,J=8.6Hz,1H),7.53(d,J=8.6Hz,2H),7.41(d,J=8.6Hz,1H),
	(d,J=2.0Hz,1H)
	IR(CHCl ₃)3595,3506,1614,1523,1489,1326,1281,1258,1122,1079,1057cm-1

Table 87

	m.p.180-182°C
1.497	1.10 (CDCl ₃) & 1.75(s,3H),1.80(s,3H),3.44(s,3H),3.76(s,3H),4.66(d,J=6.6Hz.2H),4.87(s,1H),5.59(t,1=6.6Hz,1H),6.02(s,1H)
77),6.46(s,1H),6.93(d,J=8.9Hz,2H),7.06(d,J=8.4Hz,1H),7.53(d,J=8.9Hz,2H),7.59(dd,J=8.4,2Hz,1H),7.11,0.05(s,1H)
	IR(KBr)3406,1615,1522,1488,1399,1324,1280,1256,1138,1116.1076.1054.996.835.826cm-1
	m.p.133-135°C
1.498	HNMR(CDCl ₃) δ 3.44(s,3H),3.75(s,3H),4.87(s,1H),5.23(s,2H),6.03(s,1H),6.46(s,1H),6.93(d,1=8,6Hz,9H),7.11(z,1=0,41)
	H), 7.32.7.49(m,5H), 7.53(d, J=8.6Hz, 2H), 7.60(dd, J=8.4, 2.1Hz, 1H), 7.75(d, J=2.1Hz, 1H),
	IR(KBr)3397,1612,1523,1489,1400,1321,1257,1132,1084,1056,1002,832cm ⁻¹
	m.p.174·176°C
1.490	1HNMR(CDCl ₃) & 2.37(s,3H),3.44(s,3H),3.75(s,3H),4.88(s,1H),5.18(s,2H),6.02(s,1H),6.45(s,1H),6.03(d,1-s,cH-off)
77.	J=8.4Hz,1H),7.21(d,J=8.1Hz,2H),7.36(d,J=8.1Hz,2H),7.53(d,J=8.4Hz,9H),7.53(d,J=8.4Hz,9H),7.53(d,J=8.4Hz,9H),7.34(d,J=8.4Hz,9H),7
	IR(KBr)3481,3376,1616,1520,1491,1327,1260,1119,1081,1004,8275m - 1
	1HNMR(CDCl ₃) & 2.37(s,3H),2.54(s,3H),2.68(s,3H),3.12(s,3H),3.74(s,3H),3.77(s,3H),5.14(s,9H),6.85(c,1H),7.19.7.201.
I-430	7.30-7.44(m,6H),7.53-7.59(m,2H)
	IR(CHCl ₃)1608,1517,1476,1367,1117,1080,1013,970,876cm ⁻¹
	m.p.164·168℃
[.43]	'HNMR(CDCl ₃) & 1.76(s,3H),1.82(s,3H),2.54(s,3H),3.47(s,3H),3.75(s,3H),4.62(d,J=6.9Hz,2H),5.53(m,1H),5.69(s,1H),5.90(c,1H)
	IR(CHCl ₃)3518,2968,1584,1516,1483,1460,1414,1388,1310,1289,1243,1114,1069,1011,036,818,1
	m.p.179-181°C
1.432	$ HNMR(CDCl_3) \delta = 2.39(s, 3H), 2.54(s, 3H), 3.46(s, 3H), 3.74(s, 3H), 5.10(s, 2H), 5.67(s, 1H) = 89(s, 1H), 6.46(s, 1H), 6.91(s, 1H), 6.91(s, 1H)$
	4Hz,1H),7.03(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.20-7.26(m,2H),7.31-7.37(m,4H),7.55-7.61(m,9H)
	IR(CHCl ₃)3524,2930,1585,1517,1483,1460,1414,1389,1310,1289,1245,1114,1090,1070,1000,027,918,1

Table 88

	m.p.111-112°C
1.433	"HNMR(CDCl ₃) δ 1.76(d,J=0.6Hz,3H),1.81(d,J=0.9Hz,3H),2.69(s,3H),3.52(s,3H),3.78(s,3H) 4 63(t,J=6.6Hz,9H) 5 52(z, 1tr)
	,6.84(s,1H),7.02-7.25(m,5H),7.56-7.65(m,2H)
	IR(CHCl ₃)2932,1607,1520,1481,1368,1266,1080,1012,961,907,836,8191
٠	m.p.97·101°C
1.434	1HNMR(CDCl ₃) & 1.69(s,3H), 1.75(d,J=0.9Hz,3H), 2.48-2.58(m,5H), 3.46(s,3H), 3.47(s,3H), 4.06(t, 1-6.0Hz, 9U), 5.00(c), 110, 5.0
FOF-1	7(s,1H),5.88(s,1H),6.46(s,1H),6.92-6.97(m,2H),7.05(m,1H),7.30-7.38(m,2H),7.55-7.62(m,2H)
	m.p. 127-129°C
) (¹HNMR(CDCl₃) δ 1.68(s, 3H) 1.74(d, l≡1.2Hz, 3H) 9.50.9 60(m, 9H) 9.71/2.011, 6.72/2.011
1-435	3(m, 1H), 6.83(s, 1H), 7.00-7.21(m, 5H), 7.57-7.64(m, 2H)
	IR(CHCl ₃)2930,1607,1520,1481,1368,1266,1080,1019, 960,836,819,1
	m.p.159-161°C
-	9 (HE 3)96 7 (1)
1.436	7.65(m,2H)
	IR(CHCl ₃)1520,1481,1368,1267,1131,1080,1019,960,8361
	m.p.120-124°C
1.437	1HNMR(CDCl3) § 1.76(d,J=0.6Hz,3H),1.81(d,J=0.6Hz,3H),3.43(s,3H),3.67(s,3H) 4.63(d, 1=6.6Hz,9H) 5.62(-111) 5.02(-111)
·),6.44(s,1H),7.00-7.24(m,5H),7.57-7.66(m,2H)
	IR(CHCl ₃)3522,2930,1586,1518,1484,1415,1390,1311,1290,1248,1115,1090,1071,1019,028,919,1
	, 1012, 138, 818cm

Table 89

	m.p.140.5-141.5°C
1.438	$^{1}\text{HNMR}(\text{CDCl}_{3}) \ \delta \ 2.37(\text{s},3\text{H}), 3.43(\text{s},3\text{H}), 3.75(\text{s},3\text{H}), 5.14(\text{s},2\text{H}), 5.97(\text{s},1\text{H}), 6.44(\text{s},1\text{H}), 7.04\cdot7.28(\text{m},7\text{H}), 7.36(\text{d},1\text{=8}\ 1\text{H}^{2}\ 1\text{H}), 7.104\cdot7.28(\text{m},7\text{H}), 7.36(\text{d},1\text{=8}\ 1\text{H}^{2}\ 1\text{H}), 7.104\cdot7.28(\text{m},7\text{H}), 7.36(\text{d},7\text{H}^{2}\ 1\text{H}), 7.104\cdot7.28(\text{m},7\text{H}^{2}\ 1\text{H}^{2}\ 1\text{H}^{2}), 7.104\cdot7.28(\text{m},7\text{H}^{2}\ 1\text{H}^{2}\ 1\text{H}^{2}\ 1\text{H}^{2}), 7.104\cdot7.28(\text{m},7\text{H}^{2}\ 1\text{H}^{2}\ 1\text{H}^{2}\ 1\text{H}^{2}\ 1\text{H}^{2}\ 1\text{H}^{2}), 7.104\cdot7.28(\text{m},7\text{H}^{2}\ 1\text{H}^{2}\ 1$
	57-7.65(m,2H)
	IR(CHCl ₃)3496,2932,1613,1520,1488,1460,1391,1313,1267,1113,1069,1010,934,825cm ⁻¹
	m.p.76.5-77.5°C
1.430	¹ HNMR(CDCl ₃) & 1.68(s,3H),1.74(d,J=0.9Hz,3H),2.49-2.60(m,2H),3.43(s,3H),3.75(s,3H),4.05(t,J=7.2Hz,2H) 5.93(m,1H) 5.9
1.400	6(s,1H),6.44(s,1H),6.99-7.28(m,5H),7.57-7.66(m,2H)
	IR(CHCl ₃)3498,2930,1613,1521,1489,1391,1310,1267,1113,1070,1011,934.825cm ⁻¹
	m.p.174·176℃
1.440	1HNMR(CDCl3) & 2.80(s,3H),3.46(s,3H),3.76(s,3H),5.16(s,2H),5.71(s,1H),5.88(s,1H),6.47(s,1H),6.95(dd,1=1,8.8,4H; 1H),7
2	04(d,J=8.4Hz,1H),7.08(d,J=1.8Hz,1H),7.34-7.49(m,5H),7.72-7.85(m,4H)
	IR(CHCl ₃)3518,1587,1516,1483,1459,1415,1387,1290,1114,1070,1041,1011,936,821cm ⁻¹
	m.p.199-202°C
1,441	1HNMR(d6-DMSO) § 3.28(s,3H),3.34(s,3H),3.67(s,3H),5.14(s,2H),6.52(s,1H),6.66(dd,J=2,1,8,4Hz,1H),6.79(d,J=2,1H)
1	6.97(d,J=8.4Hz,1H),7.30-7.56(m,5H),7.86-7.93(m,2H),7.98-8.04(m,2H) 8.65-9.09(hrs.9H)
	IR(IXBr)3487,3413,3004,1597,1518,1500,1482,1456.1360,1310,1281,1231,1146,1118,1000,1068,1016,1004,001
	m.p.80-84°C
1.449	1 HNMR(CDCl ₃) δ 1.15(t,J=7.2Hz,3H),3.60(q,J=7.2Hz,2H),3.75(e,3H),5.03(s,1H),5.15(s,2H) 5.69(s,1H) 5.98(s,1H) 6.45(c,1H)
1),6.88-6.94(m,2H),6.96(dd,J=2.1,8.1Hz,1H),7.02(d,J=8.1Hz,1H),7.10(d,J=2.1Hz,1H),7.34.7 49(m,5H),7.51.7 50(m,9H)
	IR(CHCl3)3528,1612,1521,1488,1454,1412,1383,1286,1246,1113,1069,1093,886,8951
	1000,1000,1000,1000,1000,1000,1000,100

Table 90

·	m.p.168-169°C
1.443	1HNMR(CDCl ₃) δ 1.14(t,J=6.9Hz,3H),2.66(s,3H),3.13(s,3H),3.20(s,3H),3.72(a,J=6.9Hz,9H),3.78(c,DCl ₃)
Cirt	(3.7.15(4.5) = 8.4 Hz, 1H), $(7.31.7.49(m, 9H), 7.66.7.73(m, 5H))$
	IR(CHCl ₃)1517,1479,1369,1148,1117,1082,969,873cm ⁻¹
	m.p.192-194°C
1.444	¹ HNMR(CDCl ₃) δ 3.13(s,3H),3.44(s,3H),3.63(s,3H),5.14(br.1H) 5.19(s,2H) 6.81-6.84/m 9H) 6.04/2 1H2 2.77 1
4	8.4Hz, 1H), 7.22-7.25(m, 2H), 7.37-7.50(m, 5H), 7.57(dd, J=8.7,2.1Hz, 1H), 7.67(d, J=2.1Hz, 1H) [R/CHCL], 35.05, 3441, 1750, 10.15, 1.20,
	m.p.179-180 C
177	¹ HNMR(CDCl ₃) δ 1.77(s, 3H), 1.82(s, 3H), 2.31(s, 3H), 3.46(s, 3H), 3.46(s, 3H), 2.60(s, 3H),
1-440	1H),7.06-7.13(m,3H),7.35-7.38(m,2H),7.57(dd,J=8.4.2.4Hz,1H),7.64(d,J=9.4uz,1u)
	IR(CHCl ₃)2938,1732,1614,1599,1518,1470,1445,1370,1345,1380,1986,1986,1986,1986,1986,1986,1986,1886,18
	m.p.137-138 \mathbb{C}
1.446	1HNMR(CDCl ₃) § 3.13(s,3H),3.45(s,3H),3.59(s,3H),3.77(s,3H),3.88(s,3H),4.93(s,9H),5.19(s,9U),6.9(c,11),7.10(s,11)
2	1H),7.35-7.50(m,9H),7.60(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H)
	IR(CHCl ₃)2954,1750,1734,1614,1516,1471,1387,1372,1345,1991,1958,1172,1172,1172,1172,1172,1172,1172,117
	m.p.184.185 C
1.447	¹ HNMR(CDCl ₃) § 3.44(s,3H),3.60(s,3H),3.74(s,3H),4.70(br,2H),5.17(s,2H) 6 95.7 09(m,4H) 7 17/34 1-8 4 6 111 115 - 115 1
	1H),7.31-7.34(d,J=8.7Hz,2H),7.38-7.47(m,5H)
	IR(CHCl3)3541,2937,1776,1733,1608,1519,1474,1449,1344,1361,1157,1166,156
	$\frac{1}{10000000000000000000000000000000000$

Table 91

	m.p.176-178℃
1.448	1HNMR(CDCL3) & 3.12(s,3H),3.44(s,3H),3.60(s,3H),3.76(s,3H),3.83(s,3H),4.66(s,2H),5.19(s,2H),6.91-6.96(m.3H) 7.14(d.J=8
	.4Hz,1H),7.28·7.49(m,7H),7.57(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H)
	IR(CHCl ₃)2953,2939,1758,1732,1610,1519,1471,1444,1371,1345,1291,1177,1117,1085,1064,1002,973,961,904,837cm ⁻¹
	m.p.124.126°C
	'HNMR(CDCl ₃) § 1.69(s,3H),1.74(d,J=0.9Hz,3H),2.31(s,3H),2.53-2.60(m,2H),3.23(s,3H),3.44(s,3H),3.58(s,3H),3.76(s,3H),4
1-449	09(t,J=6.6Hz,2H),5.22(m,1H),6.95(s,1H),7.07(d,J=8.4Hz,1H),7.10-7.13(m,2H),7.34-7.37(m,2H),7.57(d,J=9.0.9.4Hz,1H),7.67(d,J=8.4Hz,1H),7.10-7.13(m,2H),7.34-7.37(m,2H),7.57(d,J=9.0.9.4Hz,1H),7.6
	4(d,J=2.4Hz,1H)
	IR(CHCl ₃)2938,1732,1614,1518,1469,1445,1370,1291,1257,1170,1167,1081,1004,973,961,906,846cm ⁻¹
	m.p.160-161°C
	1 HNMR(CDCl ₃) δ 1.69(s,3H),1.74(d,J=0.9,3H),2.53-2.60(m,2H),3.23(s,3H),3.44(s,3H),3.62(s,3H),3.76(s,3H),4.08(d.1=6.6Hz)
I-420	,2H),4.91(br,1H),5.20-5.25(m,1H),6.83-6.86(m,2H),6.94(s,1H),7.06(d,J=8.7Hz.2H),7.23-7.26(m,2H),7.35-7.36(m,3H),7.31-7.31-7.31-7.31-7.31-7.31-7.31-7.31-
),7.64(d,J=2.4Hz,1H)
	IR(CHCl3)3595,3448,2937,1730,1613,1522,1469,1445,1370,1345,1292,1260,1172,1117,1081,1064,1003,973,864,837cm-1
	m.p.182-184°C
	1HNMR(CDCl3) & 1.70(d,J=0.6Hz,3H),1.81(d,J=0.9Hz,3H),3.24(s,3H),3.45(s,3H),3.63(s,3H),3.75(s,3H),4.64(d,J=6.6Hz,2H)
I-451	5.48-5.54(m,1H),5.76(br,1H),6.78-6.82(m,2H),6.95(s,1H),7.08(d,J=8.7Hz,1H),7.19-7.24(m,2H),7.56(dd,J=8.79.4Hz,1H),7.5
	4(d,J=2.4Hz,1H)
	IR(CHCl3)3595,3445,2939,1730,1613,1522,1471,1445,1369,1345,1291,1257,1172,1116,1081,1064,1009,973,904,8381
	m.p.250-253°C(dec.)
1.459	1 HNMR(CD ₃ OD) δ 3.41(s,3H),3.71(s,3H),4.58(s,2H),5.21(s,2H),6.29-6.95(m,3H),7.02-7.03(m,2H),7.17(s,1H),7.96.7.41(m,5H)
201	H),7.49.7.52(m,2H)
	IR(KBr)3424,2933,2553,1709,1608,1519,1467,1383,1333,1291,1229,1129,1084,1060,1001,915.861.841,727,697cm ⁻¹

Table 92

	foam
1.453	"HNMR(CDCl ₃) δ 1.69(s,3H),1.75(d,J=1.2Hz,3H),2.51.2.58(m,2H),3.43(s,3H),3.62(s,3H),3.75(s,3H) 4.08(t.J=6.9H ₂ .9H) 4.8
	5(br,1H),5.23(m,1H),5.71(br,1H),6.82-6.85(m,2H),6.90-6.94(m,2H),7.16(dd,J=8.4.2.1Hz.1H),7.23-7.26(m,3H)
	IR(CHCl3)3596,3541,2936,1730,1612,1590,1522,1470,1395,1345,1290,1258,1173,1130,1081,1063,1004,861,896,1
	m.p.166-167°C
1,454	1HNMR(CDCl ₃) δ 1.77(s,3H),1.82(s,3H),3.48(s,3H),3.75(s,3H),4.64(d.J=6.6Hz 2H) 5.51.5.55(m.1H) 5.75(p. 1H) 6.77.6.90/
F0F-1	m,2H),6.93-6.96(m,2H),7.17(dd,J=8.1,2.1Hz,1H),7.23-7.28(m,3H)
	IR(KBr)3447,2937,1590,1559,1522,1473,1382,1338,1295,1259,1131,1080,1059,009,018,969,937,945,2937,045,293
	m.p.168-170°C
	1HNMR(CD ₃ OD) § 1.68(s,3H),1.74(s,3H),2.50-2.58(m,2H),3.41(s,3H),3.73(s,3H),4.05(t,1=6.0H;2H),5.90,-111),6.76,5.76
I-455	m,2H),6.98-7.17(m,6H)
	IR(KBr)3411,2964,2936,1685,1613,1590,1523,1472,1379,1293,1259,1239,1131,1082,1061,1000,069,961,026,011,251
	29cm ⁻¹
	m.p.153-155°C
1.456	1HNMR(CDCl ₃) δ 3.14(s,3H),3.50(s,3H),3.77(s,3H),5.20(s,2H),7.10-7.28(m,6H),7.38-7 50(m,5H),7 56(4d, 1-8,49,1H),7
202	65(d,J=2.1Hz,1H),9.98(s,1H)
	IR(CHCl ₃)2938,2843,1697,1604,1590,1517,1469,1372,1331,1293,1254,1179,1150,1192,1002,1005,1004,1590,1517,1469,1372,1331,1293
	m.p.143-145 C
1.457	'HNMR(CDCl ₃) δ 1.77(s,3H),1.83(s,3H),3.44(s,3H),3.63(s,3H),3.75(s,3H),4.63(d,J=6.6H ₂ .9H), ξ.53(m, 1H) ξ.79(L., 1H), β.00 co.
2	6.85(m,2H),6.92-6.95(m,2H),7.16(dd,J=8.4,2.4Hz,1H),7.23-7.26(m,3H)
	IR(CHCl ₃)3595,3537,2938,1729,1612,1591,1522,1473,1395,1344,1990,1958,1172,1190,1961,1961,1961,1961,1961,1961,1961
	1,120,11,120,1181 [His all His

Table 93

1-458 m.44h).7.45-7.50(m.2H),7.82(s.3H),3.11(s,3H).3.21(s.3H),3.51(s.3H),3.52(s.3H),5.26(s.2H),7.19-7.23(m,2H),7.36-7.43(m.44h).7.45-7.50(m.2H),7.82(d.3-2.1Hz,1H),7.98(d.3-2.1Hz,1H) 1R(CHCla)3033.2942.1543.1377.1220,1181,1153.1034cm ⁻¹ m.p.182-187C(dec.) HNMR(CDCla) & 2.36(s.3H),2.73(s.3H),3.16(s.3H),3.43(s.3H),3.47(s.3H),5.08(s.2H),6.85(brs,1H),6.92(brs,1H),7.121(m.2H),7.32-7.38(m.2H),7.30-7.43(m,2H),7.30-7.55(m,2H) 1R(CHCla)3030.2939,1618,1599,1513,1468,1416,1372,1178,1150,1031cm ⁻¹ powder 1-460 1R(CHCla)3032.2940,1728,1473,1373,1232,1179,1150,1085cm ⁻¹ amorphous 1-461 1-462 1-463 1-464 1-464 1-464 1-464 1-465 1-465 1-465 1-465 1-465 1-465 1-465 1-461 1-465 1-461 1-461 1-462 1-461 1-461 1-462 1-461 1-463 1-461 1-463 1-464		nowder
	· .	HNMR(CDCl.) & 2.37(s,3H),3.08(s,3H),3.11(s,3H) 3.21(s,3H) 3.51(s,3H) 3.51(s,3H) 3.55(s,3H) 5.56(s,5H)
	1-458	m, 4H), 7.45-7.50 (m, 2H), 7.82 (d, J=2.1Hz, 1H), 7.98 (d, J=2.1Hz, 1H)
		IR(CHCl ₃)3033,2942,1543,1377,1220,1181,1153,1034cm ⁻¹
	1.459	HNMR(CDCl ₃) δ 2.36(s, 3H), 2.73(s, 3H), 3.16(s, 3H), 3.22(s, 3H), 3.43(s, 3H), 3.47(s, 3H), 5.08(s, 2H), 6.85(brs, 1H), 6.92(brs, 1H), 7
	•	.17-7.21(m,2H),7.32-7.38(m,2H),7.39-7.44(m,2H),7.50-7.55(m,2H)
		IR(CHCl.)3030,2939,1618,1599,1513,1468,1416,1372,1178,1150,1031cm ⁻¹
		powder
	1.460	¹ HNMR(CDCl ₃) δ 2.38(s,3H),2.83(s,3H),3.05(s,3H),3.22(s,3H),3.56(s,3H),3.80(s,3H),3.91(s,3H) 5 13(s,2H) 6 86(s,1H) 7 90
	001-1	7.24(m,2H),7.37-7.46(m,4H),7.65-7.70(m,3H),7.89(d,J=2.1Hz.1H)
		IR(CHCl ₃)3032,2940,1728,1473,1373,1232,1179,1150.1085cm ⁻¹
		amorphous
	1.461	¹ HNMR(CDCl ₃) δ 3.78(s,6H),5.16(s,2H),5.31(d,J=3.6Hz,1H),5.72(s,1H),6.91(s,1H),6.94(s,1H),6.99(d,1=8.9Hz,1H),7.04(t,1=1.1H
	101-1	8.6Hz, 1H), 7.08(dd, J=8.2, 2.1Hz, 1H), 7.22(d, J=2.1Hz, 1H), 7.25(ddd, J=8 6 1 8 0 9Hz, 1H), 7.34 7.46(m, 61)
		IR(CHCl ₃)3577,3548,1526,1495,1280,1635cm ⁻¹
	1.469	1HNMR(CDCl ₃) § 3.12(s,3H),3.26(s,3H),3.80(s,3H),3.81(s,3H),5.18(s,2H),6.91(s,1H),6.94(s,1H),7.19(d,1=8.4Hz,1H),7.25.7
IR(CHCl ₃)1494,1367,1212,1180,1116,879,808cm ⁻¹	201	50(m,8H),7.59(d,J=1.8Hz,1H)
		IR(CHCl ₃)1494,1367,1212,1180,1116,872,808cm ⁻¹

HINMR(CDCIs) & 1.77(s,3H),1.82(s,3H),3.23(s,3H),3.27(s,3H),3.80(s,3H),3.82(s,3H),4.64(d,J=6.7Hz,2H),5.51(t,J=6.7Hz,1H)	3 23(8 3H) 3 97(8 9H) 3 80(8 9H) 9 90(9 VIII 2) 4 VIII 2 VIII 3 V
	100(5) 01.1/10.21 (8,011/10.00(8,011/10.00(8,011),4.04(0,0=0.7Hz,2H) 5 51(1.1=6 7H2 1H
), 6.91(s, 1H), 6.95(s, 1H), 7.06(d, J=8.7Hz, 1H), 7.37(dd, J=8.7, 1.9Hz, 1H), 7.40-7.47(m, 2H), 7.50(d, J=2.4Hz, 1H), 7.57(d, J=1.9Hz, 1H), 7.40-7.47(m, ZH), 7.50(d, J=2.4Hz, 1H), 7.50(d, J=2.4Hz, 1H), 7.50(d, J=2.4Hz, 1H), 7.50(d, J=2.4Hz, 1H), 7.40-7.47(m, ZH), 7.50(d, J=2.4Hz, 1H), 7.50(d, J=2.4Hz, 2H), 7.50(d, J=2
 	1,4110.1
	,1035,977,832,807cm ⁻¹
······································	
	.2.55(q,J=7.0Hz,2H),3.21(s,3H),3.26(s,3H),3.80(s,3H),3.81(s,3H),4.07(1,1-7.0H-011)
	H),7.05(d,J=8.4Hz,1H),7.37(dd,J=8 4 9 1H2 1H) 7 40 7 47(2, 91), 91)
	2.1Hz,1 = 2.1Hz,1 (11Δ,111) 1+11-0+11 (111,111) 1-1-1-1 (111,111) 1-1-1-1-1-1 (111,111) 1-1-1-1-1 (111,111) 1-1-1-1-1 (111,111) 1-1-1-1-1-1-1 (111,111) 1-1-1-1-1 (111,111) 1-1-1-1-1 (111,111) 1-1-1-1-1-1-1 (111,111) 1-1-1-1-1 (111,111) 1-1-1-1-1-1 (111,111) 1-1-1-1-1-1-1 (111,111) 1-1-1-1-1-1-1 (111,111) 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	,1035,976,832,806cm ⁻¹
	3.11(s,3H),3.26(s,3H),3.80(s,3H),3.81(s,3H),5.13(s,2H),6.91(s,1H),6.94(s,2H),3.80(s,3H)
	2H),7.37(dd,J=8.4.1.8Hz,1H),7.40.7.50(m,3H),7.50(4,111,0.04(8,111),1.12(0,J=8.4Hz,
·	368,806cm ⁻¹
	.3.79(s,6H),4.62(d,J=6.9Hz.2H) 5.26(d,J=3.9Hz.1H) 5.84 1-6.011.
1.8,0.9Hz,1H),7.37(dd,J=12.0,1.8Hz.1H)	(1),7.04(t,J=8.7Hz,1H),7.07(dd,I=8.6.9.1Hz,1H),7.07(dd,I=8.7Hz,1H),7.04(t,J=8.7Hz,1H),7.07(dd,I=8.7Hz,1H),
	., ., ., ., ., ., ., ., ., ., ., ., ., .
IR(CHCl ₃)3578,3542,1526,1495,1280,1055,1035cm ⁻¹	55.1035cm ⁻¹

1-467	amorphous 'HNMR(CDCl ₃) δ 2.39(s,3H),3.79(s,6H),5.11(s,2H),5.40(brs,1H),5.73(s,1H),6.91(s,1H),6.94(s,1H),6.99(d,J=8.4Hz,1H),7.04(t,J=8.7Hz,1H),7.08(dd,J=8.4,2.1Hz,1H),7.21(d,J=2.1Hz,1H),7.23(d,J=7.7Hz,2H),7.25(ddd,J=8.7,2.1,1.2Hz,1H),7.34(d,J=7.7Hz,2H),7.37(dd,J=11.7,2.1Hz,1H) Hz,2\text{H}),7.37(dd,J=11.7,2.1Hz,1H) IR(CHCl ₃)3577,3545,1526,1495,1280,1055,1035,868cm ⁻¹
1-468	amorphous ¹ HNMR(CDCl ₃) δ 1.69(s,3H), 1.75(s,3H), 2.53(q,J=7.0Hz,2H), 3.78(s,3H), 3.79(s,3H), 4.07(t,J=7.2Hz,2H), 5.22(t,J=7.0Hz,1H), ² 5.27(d,J=3.9Hz,1H), 5.71(s,1H), 6.91(s,1H), 6.91(d,J=8.6Hz,1H), 6.94(s,1H), 7.04(t,J=8.4Hz,1H), 7.06(dd,J=8.6,2.1Hz,1H), 7.19 (d,J=2.1Hz,1H), 7.25(ddd,J=8.4,1.9,1.1Hz,1H), 7.37(dd,J=12.0,1.9Hz,1H) IR(CHCl ₃)3578,1526,1495,1280,1055,1035cm ⁻¹
1-469	m.p.190-191°C 'HNMR(CDCl ₃) δ 2.38(s,3H),3.11(s,3H),3.19(s,3H),3.80(s,6H),5.13(s,2H),6.92(s,1H),6.94(s,1H),7.12(d,J=8.7Hz,1H),7.22(d,J=7.8Hz,1H),7.32-7.37(m,4H),7.49(dd,J=2.1,8.4Hz,1H),7.59(d,J=1.8Hz,1H),7.60-7.65(m,2H) IR(KBr)3600-2800(br),1521,1492,1468,1386,1366,1336,1292,1272,1259,1202,1174,1150,1113cm ⁻¹
I-470	m.p.147-148°C 'HNMR(CDCl ₃) δ 2.37(s,3H),3.19(s,3H),3.79(s,3H),5.16(s,2H),6.92(s,1H),6.92(s,1H),7.06(t,J=8.7Hz,1H),7.20-7.2 7(m,3H),7.32-7.41(m,5H),7.60-7.64(m,2H) IR(KBr)3600-2800(br),1523,1492,1462,1454,1379,1359,1999,1979,1924,191,191,192,1462,1462,1454,1379,1359,1992,1964,191,192,1462,1462,1462,1462,1464,1979,1959,1959,1959,1959,1959,1959,1959
1.471	m.p.170-172°C "HNMŘ(CDCl ₃) & 3.19(s,3H),3.24(s,3H),3.79(s,3H),5.12(s,2H),6.92(s,1H),6.94(s,1H),7.11(d,J=8.7Hz,1H),7.26-7. 30(m,2H),7.32-7.37(m,2H),7.47(dd,J=2.4,8.4Hz,1H),7.61-7.64(m,3H),7.74-7.80(m,1H),8.61-8.63(m,1H) IR(KBr)3600-2800(br),1522,1491,1462,1361,1296,1264,1212,1177,1149,115,1030 _{cm} -1
	;

Table 96

	m.p.174.175°C
1.479	1HNMR(CDCl.3) & 3.19(s,3H),3.79(s,3H),3.80(s,3H),5.33(s,2H),6.92(s,1H),6.93(s,1H),7.07(4,1-9.711-111),7.07(s,1H),7.07(s,1
	32-7.37(m,2H),7.41(dd,J=1.8,12.6Hz,1H),7.60-7.64(m,3H),7.73-7.79(m,1H),8.60-8.63(m,1H)
	1R(KBr)3600-2800(br),1524,1491,1464,1380,1361,1302,1267,1209,1172,1149,1130,1034,1034,1036,1
<u>.</u>	m.p.118.5-119.5°C
I-473	¹ HNMR(CDCl ₃) δ 1.77(s,3H),1.80(d,J=0.9Hz,3H),3.78(s,3H),3.79(s,3H),4.63(d,J=6.9Hz,2H),5.52-5.57(m,1H),6.73-6.78(m,2
	IR(KBr)3600-2800(br), 1625, 1527, 1491, 1461, 1449, 1378, 1969, 1959, 1959, 1961, 19
	m.p.156-158°C
1.474	1HNMR(CDCl ₃) & 1.77(s, 3H), 1.81(s, 3H), 3.08(s, 3H), 3.80(s, 3H), 3.81(s, 3H), 4.64(s, 1-c, c, H ₂ , o, H ₂ , c, H ₂ , o, H ₂ , c, H ₂
•	,6.93(s,1H),6.94(s,1H),7.03(t,J=8.4Hz,1H),7.26-7.30(m,3H),7.37(dd,J=1.8.12.6Hz,1H),7.57-7.517,9.92-9.98(m,1H),6.43(brs,1H)
	IR(KBr)3600-2800(br), 1526, 1495, 1463, 1382, 1325, 1300, 1267, 1210, 1156, 1139, 1139, 1267, 1207, 12
	m.p.158-160°C
1-475	1HNMR(CDCl3) & 1.77(s,3H),1.81(s,3H),3.80(s,6H),4.64(d,J=6.6Hz,2H) 4.73(hrs, 9H) 5.53 5.57(11) 1110 2.11
)	H), $6.94(s, 1H)$, $7.03(t, J=8.7Hz, 1H)$, $7.26-7.31(m, 3H)$, $7.37(dd, J=9.1.19.6Hz, 1H)$, $6.94(s, 1H)$, 6
	IR(KBr)3600-2800(br), 1527, 1495, 1462, 1395, 1326, 1999, 1964, 1908, 1176, 1136, 151, 1527, 1495, 1462, 1395, 1964, 1968, 1176, 1176, 151, 1527, 150, 151, 1527, 152, 151, 1527, 15
	m.p.138-140°C
1.476	¹ HNMR(CDCl ₃) δ 1.77(s, 3H), 1.81(s, 3H), 2.21(s, 3H), 3.78(s, 3H), 3.80(s, 3H), 4.63(d, 1-s, out, out), ε'
)	94(s,1H),7.03(t,J=8.4Hz,1H),7.20(brs,1H),7.26-7.30(m.1H),7.37(dd.1=9.1.19.cm-111),7.26-7.30(m.1H),6.93(s,1H),6.
	IR(KBr)3600-2800(br), 1666, 1604, 1527, 1494, 1463, 1448, 1379, 1317, 1909, 1904, 1905, 19
	-11239,1264, [20] 1130,1013,1013,1013,1013,1013,1013,1013

Table 97

	m.p.200.202°C
1.477	1HNMR(CDCl ₃ +CD ₃ OD) δ 1.77(s, 3H), 1.81(s, 3H), 3.79(s, 3H), 4.64(d, 1=6 6Hz, 2H) 5.52, 5.57(m, 1H) 6.02(2, 1H) 5.02
•	4(s,1H),7.03(t,J=9.0Hz,1H),7.27-7.30(m,1H),7.34-7.41(m,3H),7.52-7.55(m,2H)
	IR(KBr)3600-2800(br),2404,1684,1660,1584,1528,1493,1462,1386,1301,1974,1963,1963,1963,1963,1963,1963
	m.p.195-196.5 C
1.478	¹ HNMR(CDCl ₃) δ 1.55(s,9H),3.78(s,3H),3.79(s,3H),4.85(s,1H),6.75(brs,1H),6.88-6 99/m 9H),6.09/c, 1U), 6.02/c, 1U)
	9(m,3H),7.45-7.49(m,2H),8.12(t,J=7.5Hz,1H)
	IR(KBr)3600-2800(br), 1729, 1590, 1531, 1500, 1464, 1394, 1261, 1240, 1199, 1156, 1055, 1032, 1032, 1032, 1032
	m.p.172-174°C
1,470	1HNMR(CDCl₃) & 1.55(s,9H),3.19(s,3H),3.79(s,3H),6.75(d,1≡2,1H2,1H3) 6.99(c,1H3,6.04,11),6.95(s,0H3,1H3,1H3,1H3,1H3,1H3,1H3,1H3,1H3,1H3,1
215.7	60-7.65(m,2H)
	IR(KBr)3600-2800(br), 1728, 1590, 1531, 1513, 1494, 1464, 1391, 1367, 1359, 1940, 1967, 1172, 11
	m.p.152-153°C
1.480	1HNMR(CDCl ₃) & 1.74(s, 3H), 1.77(s, 3H), 3.18(s, 3H), 3.78(d, J=9.9Hz.2H), 3.79(s, 6H), 3.93(hrs, 1H), 5.95, 5.40(m, 1H), 5.95, 5.40(m, 1H), 5.95, 5.40(m, 1H), 5.95, 5.40(m, 1H), 5.40(m
}	.4Hz,1H),6.91(s,1H),6.95(s,1H),7.24-7.36(m,4H),7.60-7.65(m,2H)
	IR(KBr)3600-2800(br),1630,1530,1488,1466,1380,1366,1346,1959,1919,1176,1146,116,116,116
	foam
1.481	¹ HNMR(CDCl ₃) δ 2.40(s,3H),3.19(s,3H),3.77(s,3H),6.80(t.d=2.4Hz 1H),6.90(z.1H),6.90(z.1H),6.90(z.1Hz)
1	58-7.65(m,3H),7.72-7.76(m,2H)
	IR(KBr)3600-2800(br),1522,1490,1366,1342,1211,1164,1151,1081,1052,1032, -1
	, 103, 103, 103, 103, 103, 103, 103, 103

Table 98

1-482 1,8.10(d,J=3.3Hz,1H),8.55(d,J=8.4Hz,1H) 1R(KBr)3600-2800(br),1671,1592,1524,14 m.p.132-134°C 1HNMR(CDCl3) & 1.55(s,9H),3.00(s,6H), 7.48-7.52(m,2H),8.11(t,J=8.1Hz,1H) 1R(KBr)3600-2800(br),1728,1610,1591,15 foam 1HNMR(CDCl3) & 1.74(s,3H),1.77(s,3H),; Hz,1H),6.92(s,1H),6.94(s,1H),6.93-6.95(m) 1R(KBr)3600-2800(br),1625,1611,1531,14 foam 1H(KBr)3600-2800(br),1625,1611,1531,14 foam 1HNMR(CDCl3) & 2.40(s,3H),3.00(s,6H),3.17.24-7.33(m,4H),7.46-7.50(m,2H),7.60(t,3.1R(KBr)3600-2800(br),1609,1509,1493,14	¹ HNMR(CDCl ₃) δ 2.45(s,3H),3.20(s,3H),3.82(s,6H),6.95(s,1H),6.98(s,1H),7.32-7.48(m,6H),7.61-7.66(m,2H),7.80-7.84(m,2H),8.10(d,J=3.3Hz,1H),8.55(d,J=8.4Hz,1H) ¹ B.10(d,J=3.3Hz,1H),8.55(d,J=8.4Hz,1H) ¹ IR(KBr)3600-2800(br),1671,1592,1524,1494,1388,1366,1328,1265,1207,1172,1150,1052,1024cm ⁻¹ ¹ IR(KBr)3600-2800(br),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm ⁻¹ ¹ IR(KBr)3600-2800(br),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm ⁻¹ ¹ IR(KBr)3600-2800(br),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm ⁻¹
	,8.55(d,J=8.4Hz,1H) r),1671,1592,1524,1494,1388,1366,1328,1265,1207,1172,1150,1052,1024cm ⁻¹ 55(s,9H),3.00(s,6H),3.79(s,6H),6.73(d,J=2.4Hz,1H),6.81(m,2H),6.92(s,1H),6.96(s,1H),7.32-7.39(m,2H), (t,J=8.1Hz,1H) r),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm ⁻¹
	r),1671,1592,1524,1494,1388,1366,1328,1265,1207,1172,1150,1052,1024cm ⁻¹ 55(s,9H),3.00(s,6H),3.79(s,6H),6.73(d,J=2.4Hz,1H),6.81(m,2H),6.92(s,1H),6.96(s,1H),7.32-7.39(m,2H), (t,J=8.1Hz,1H) r),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm ⁻¹
	55(s,9H),3.00(s,6H),3.79(s,6H),6.73(d,J=2.4Hz,1H),6.81(m,2H),6.92(s,1H),6.96(s,1H),7.32-7.39(m,2H), (t,J=8.1Hz,1H)
	55(s,9H),3.00(s,6H),3.79(s,6H),6.73(d,J=2.4Hz,1H),6.81(m,2H),6.92(s,1H),6.96(s,1H),7.32-7.39(m,2H), (t,J=8.1Hz,1H)
	(t,J=8.1Hz,1H) c),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm ⁻¹
	r),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm ⁻¹
	1000,1000,1000,1000,1000,1000,1000,100
	HNMIK(CDCl ₃) & 1.74(s,3H),1.77(s,3H),3.00(s,6H),3.78(d,J=9.6Hz,1H),3.78(s,3H),3.70(s,9H),5.76(s,9H),5.70(s,9H)
	14(s,1H),6.93-6.95(m,1H),7.23-7.32(m,3H),7.48-7.52(m,2H)
	7),1625,1611,1531,1494,1446,1380,1340,1257,1207,1193,1055,1039,1
	40(s,3H),3.00(s,6H),3.76(s,3H),3.77(s,3H),6.70(t,J=2.4Hz 1H) 6.80(t 1-9.7Hz 9t) 5.64(s,5H)
IR(KBr)3600-2800(br),),7.24-7.33(m,4H),7.46-7.50(m,2H),7.60(t,J=9.0Hz.1H),7.71.775(m,9H)
	IR(KBr)3600-2800(br),1609,1529,1493.1446 1381 1340 1908 1164 1080 1054 1031
m.p.184-186°C	
1.486 HNMR(CDCl ₃) § 2.45	1HNMR(CDCl ₃) § 2.45(s,3H),3.01(s,6H),3.80(s,3H),6.82(d,J=7.5H ₂ .9H) & 95/c, 1H) & 96/c, 1H)
	H),7.40-7.52(m,4H),7.80-7.84(m,2H),8.08(d,J=2.7Hz,1H),8.52(t,J=8.4Hz,1H)
IR(KBr)3600-2800(br),	IR(KBr)3600-2800(br),1647,1608,1530,1497,1379,1365,1384,1867,1867,1867,1867

I-487	19.0 m. 19.0 m. 19.0 m. 2.36(s,3H),3.77(s,6H),4.81(brs,1H),6.69(dd,J=0.9,3.6Hz,1H),6.88-6.92(m,2H),6.94(s,1H),6.95(s,1H),7.23-7.26(m,2H),7.46-7.51(m,2H),7.53(dd,J=1.5,8.4Hz,1H),7.59(d,J=3.6Hz,1H),7.73(d,J=0.9Hz,1H),7.80-7.84(m,2H),8.02(d,J=8.4Hz,1H) [IR(KBr)3600-2800(br),1611-150-1408-1450-1448-1447-1512-1413-1413-1413-1413-1413-1413-1413-14
1.488	m.p.219-220°C ¹ HNMR(CDCl ₃) δ 2.37(s,3H),3.19(s,3H),3.78(s,3H),6.70(dd,J=0.9,3.6Hz,1H),6.94(s,1H),6.97(s,1H),7.24-7.27(m,2H),7.32-7.37(m,2H),7.53(dd,J=1.8,8.7Hz,1H),7.60(d,J=3.6Hz,1H),7.61-7.66(m,2H),7.73(d,J=0.9Hz,1H),7.80-7.84(m,2H),8.0 ³ (d,J=8.7Hz,1H) ¹ R(KBr)3600-28000-3 1512 1464 1454 1454 1454 1454 1454 1454 1454
1-489	"HNMR(CDCl ₃) & 3.79(s,3H),3.80(s,3H),3.94(s,3H),5.17(s,2H),5.71(s,1H),6.96(s,1H),6.97(s,1H),6.99(d,J=8.7Hz,1H),7.09(d,J=8.74z,1H),7.22(d,J=2.4Hz),7.26(s,1H),7.32-7.49(m,5H),7.66(d,J=8.7Hz,2H),8.09(d,J=8.7Hz,2H) IR(KBr)3383,1702,1606,1489,1381,1291,1206,1111,1032,1002cm ⁻¹
1.490	¹ HNMR(CDCl ₃) δ 3.12(s,3H),3.79(s,3H),3.81(s,3H),395(s,3H),5.18(s,2H),6.96(s,2H),7.12(d,J=8.4Hz,1H),7.31-7.53(m,6H),7.60(d,J=2.1Hz,1H),7.65(d,J=8.7Hz,2H),8.10(d,J=8.7Hz,2H) ¹ IR(KBr)1720,1607,1492,1362,1975,1911,1119,1057,1006,1.53
1.491	¹ HNMR(CDCl ₃) & 3.12(s,3H),3.80(s,3H),3.81(s,3H),5.18(s,2H),6.92(s,1H),6.96(s,1H),7.13(d,J=8.4Hz,1H),7.31-7.52(m,6H),7. 70(d,J=2.1Hz,1H),7.66-7.77(m,4H) IR(KBr)3433,1685,1606,1509,1492,1372,1318,1964,1911,1162,1162,1162,1
1.492	¹ HNMR(CDCl ₃) δ 3.79(s,3H),3.80(s,3H),5.17(s,2H),5.71(s,2H),6.91(s,1H),6.97(s,1H),7.00(d,J=8.4Hz,1H),7.08(dd,J=8.4&2.4Hz,1H),7.32-7.49(m,5H),7.70(s,4H) ¹ IR(KBr)3291,2242,1607,1579,1488,1384,1324,1272,1209,1130,1054,1051,1051,1051,1051,1051,1051,105
	120, 1024, 124, 127, 1130, 1130, 1054, 1001cm ⁻¹

Table 100

	1HNMR(CDCl ₃) & 3.12(s, 3H), 3.80(s, 3H), 3.81(s, 3H), 5.18(s, 2H), 6.92(s, 1H), 6.96(s, 1H), 7.12(d, 1=8.4Hz, 1H), 7.31, 7.31, 7.32, 211)
I-493	60(d,J=1.8Hz,1H),7.65-7.74(m,4H)
	IR(KBr)2223,1604,1490,1363,1296,1264,1213,1172,1117,1055,1036,1026cm-1
	"HNMR(CDCl3) & 1.77(s,3H), 1.81(s,3H), 3.23(s,3H), 3.80(s,3H), 3.81(s,3H), 3.95(s,3H), 4.64(d, 1=6.6Hz, 9H), 5.11, 1-6.511
I-494),6.96(s,2H),7.06(d,J=8.7Hz,1H),7.50(d,d,J=8.7&2.1Hz,1H),7.59(d,J=2.1Hz,1H),7.59(d,J=2.1Hz,1H),7.59(d,J=3.1Hz,1Hz,1H),7.59(d,J=3.1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,
	IR(KBr)1720, 1608, 1508, 1492, 1384, 1357, 1273, 1179, 1110, 1026, 1019cm ⁻¹
	1HNMR(CDCl3) & 2.38(s,3H),3.12(s,3H),3.80(s,6H),3.81(s,3H),3.95(s,3H),5.14(s,2H) 6.96(s,9H) 7.13(d,1-6,4H-11),7.91()
I-495	J=7.8Hz,2H),7.35(d,J=7.8Hz,2H),7.49(d,d,J=8.4&1.8Hz,1H),7.60(d,J=1.8Hz,1H),7.65(d,J=7.8Hz,1H),0.011,0.011
	$1R(KBr)1697,1607,1492,1364,1286,1263,1213,1178,11115,1057,1030cm^{-1}$
I-496	IR(KBr)1730,1701,1610,1515,1465,1359,1238,1186,1116,1082,1064,1016cm-1
	1HNMR(CDCl3) & 1.75(s,3H),1.80(s,3H),2.89(s,6H),3.21(s,3H),3.44(s,3H),3.68(s,3H),3.77(s,1H),4.61(4,1H),4.61(4,1H)
1.497	Hz,1H),6.92(s,1H),7.01(d,
	1H)
	IR(KBr)1727,1598,1515,1467,1360,1295,1258,1241,1116,1084cm ⁻¹
	1HNMR(CDCl ₃) § 2.38(s, 3H), 2.89(s, 6H), 3.10(s, 3H), 3.44(s, 3H), 3.66(s, 3H), 3.77(s, 3H), 5.11(s, 3H), 6.93(s, 1H), 7.06.7, 1E/2.011
I-498	7.17.7.29(m,4H),7.31-7.37(m,3H),7.53(d.d,J=8.7&1.8Hz.1H),7.66(d,J=1.8Hz.1H)
	IR(KBr)1732,1701,1598,1518,1466,1352,1294,1121,1085.1060.1015cm ⁻¹
	1HNMR(CDCl ₃) & 2.88(s,6H),3.44(s,3H),3.64(s,3H),3.77(s,3H),5.17(s,2H),5.65(s,1H),6.84(dd,J=8.18,9.1H, 1H),6.99(c,3.1H)
I-499	.95(d,J=8.1Hz,1H),7.01(d,J=2.1Hz,1H),7.12(d,J=8.4Hz,1H),7.31-7.46(m,6H),7.53(d,d,L=8.4,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1,0.1
	IR(KBr)3526,3434,1732,1598,1515,1460,1344,1260,1940,1999,1061,10131
	, 1200, 1240, 1240, 1240, 101, 101, 101, 101, 101, 101, 101, 1

	HNMR(CDCl ₃) & 2.60(s,3H),3.43(s,3H),3.72(s,3H),5.17(s,2H) 5.67(s,1H) 6.77(s,1H) 6.04(s,1H) 6.04(s
I-500	.02(d,J=8.4Hz,1H),7.06(d,J=1.8Hz,1H),7.32-7.50(m.7H),7.53-7.62(m.1H),7.94(d,J=2.4&1.8Hz,1H),7
	IR(KBr)1732,1719,1585,1521,1481,1403,1352,1289,1953,1995,1179,1079,1049,1049,1049,104
	¹ HNMR(CDCl ₃) δ 2.73(s,3H),3.12(s,3H),3.43(s,3H),3.72(s,3H),3.76(s,3H),5.19(s,9H),6.79(s,1H),6.79(s,1H),7.72(s,3H),3.72(s,3H),3.76(s,3H),5.19(s,9H),6.79(s,1H),7.72(s,3H),7.7
1-501	63(m,10H),9.96(d,J=6.6Hz,1H)
	IR(KBr)1726,1609,1520,1480,1400,1371,1294,1262,1179,1075,1009cm-1
	1HNMR(CDCl ₃) & 1.78(s, 3H), 1.81(s, 3H), 3.22(s, 3H), 3.48(s, 3H), 3.71(s, 3H), 3.48(s, 3H), 3
1.502	J=6.9Hz, 1H), 6.62(s, 1H), 6.70(s, 1H), 7.11(s, 1H), 7.38(d, J=8.7Hz, 1H), 7.69(d, J=8.7Hz, 1H), 7.69(d, J=8.7Hz, J=8.7H
	IR(KBr)1699,1607,1587,1516,1468,1354,1216,1159,1067,1044,1004,1
•	1HNMR(CDCl ₃) § 1.78(s,3H),1.81(s,3H),3.21(s,3H),3.48(s,3H),3.79(s,3H),3.74(s,2H),2.00(
1 503	,J=11.7Hz,1H),4.65(d,J=8.4Hz,1H),5.57(t,J=8.4Hz,1H),6.68(s,1H),6.68(s,1H),6.69(s,0H),4.64(d
	z,2H)
	IR(KBr)3530,1609,1515,1467,1356,1214,1174,1151,1075,1039,10040m-1
	1HNMR(CDCl ₃) δ 1.77(s, 3H), 1.80(s, 3H), 3.22(s, 3H), 3.45(s, 3H), 3.75(s, 3H), 3.77(s, 3H), 3.81(s, 3H),
1.504	=6.9Hz,1H),6.64(s,1H),6.77(s,1H),6.97(s,1H),7.39(d,J=8.7Hz,2H),7.72/d,J=8.7Hz,9H)
	IR(KBr)3431,1735,1706,1609,1514,1474,1367,1206,1176,1150,1055,1039cm-1
	1HNMR(CDCl ₃) & 1.77(s, 3H), 1.80(s, 3H), 2.94(broad, 1H), 3.47(s, 3H), 3.72(s, 3H), 3.73(s, 3H), 3.81(s, 3H), 4.99(s, 1H), 4.99(s, 1H
I-505	.65(d,J=6.6Hz,2H),5.34(s,1H),5.57(t,J=6.6Hz,1H),6.69(s,1H),6.70(s,1H),6.89(s,1H),6.91(s,1H),7.31(s,
	IR(KBr)3466,1610,1517,1475,1463,1386,1265,1215,1170,1147,1075,1049,1007,1
•	1HNMR(CDCl ₃) δ 1.76(s,3H),1.79(s,3H),3.44(s,3H),3.74(s,3H),3.76(s,3H),3.80(s,3H),4.6374 1-7.942,943,500, 113.75
I-506	5.60 (m, 1H), 6.63(s, 1H), 6.78(s, 1H), 6.94(d, J=8.7Hz, 2H), 6.97(s, 1H), 7.54(d, J=8.7Hz, 9H)
	IR(KBr)3382,1726,1699,1611,1519,1470,1206,1174,1143,1074,1056,007,
	, 1010, 101, 101, 101, 101, 101, 101, 1

	1111111111(CDC13) = 1.77(8,3H), 1.79(8,3H), 3.41(8,3H), 3.60(8,3H), 3.74(8,3H), 3.77(8,3H), 3.81(8,3H), 4.63(4.1=6.9Hz, 9H)
1.507	4.74-5.02 (broad, 1H), 5.52-5.60(m, 1H), 6.63(s, 1H), 6.75(s, 1H), 6.91(d, 1=8.7H, 2H), 6.04(c, 1H), 7.54.5.11
	$\overline{1R(KBr)}$ 3423,1734,1612,1520,1475,1441,1395,1337,1967,1915,1173,1140,1017,)
	1HNMR(CDCl ₃) § 3.21(s,3H),3.45(s,3H),3.73(s,3H),4.41-4.62(m.2H),5.16(s,2H) § 71(s,1H) § 70(d,d,1-9,1g,9,1H-11), 5.2.7
1-508	(1H), 6.92(d, J=2.1Hz, 1H), 7.01(d, J=8.1Hz, 1H), 7.32-7.50(m, 7H), 7.71(d, J=8.4Hz, 2H)
	IR(KBr)3496,3255,1607,1590,1528,1473,1464,1358,1247,1147,1071,1017cm ⁻¹
	1HNMR(CDCl ₃) δ 3.21(s,3H),3.45(s,3H),3.73(s,3H),3.89(s,3H),4.51(d,J=6.3Hz.2H) 5.20(s,2H) 6.80(d,d,1=8.1.8.9 1 Hz. 1 Hz. 2 H
I-509	85(s,1H),6.89(d,J=2.1Hz,1H),6.97(d,J=8.1Hz,1H),7.29-7.51(m,7H),7.71(d,J=8.7Hz,9H)
	IR(KBr)3412, 1603, 1586, 1515, 1464, 1364, 1242, 1175, 1151, 1081, 1020, 1006cm - 1
	1HNMR(CDCl ₃) & 1.76(s,3H),1.80(s,3H),3.22(s,3H),3.45(s,3H),3.73(s,3H),3.87(s,3H),4.52(s,9H),4.64(d,1-6.641,94),5.51(s,1)
1-510	=6.6Hz,1H),6.83(dd,J=7.5&1.2Hz,1H),6.86(d,J=1.2Hz,1H),6.96(d,J=7.5Hz,1H)
	IR(KBr)3433,1598,1579,1517,1469,1372,1244,1221,1174,1149,1072,1017cm-1
	1HNMR(CDCl ₃) § 2.36(s,3H),3.21(s,3H),3.45(s,3H),3.72(s,3H),3.88(s,3H) 4 50(s,9H) 5 16(s,9H) 6 90(d,d 1-6 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1.511	.85(s, 1H), 6.88(d, J=2.1Hz, 1H), 6.97(d, J=8.1Hz, 1H), 7.20(d, J=8.4Hz, 2H), 7.33, 7.49(m, 4H), 7.71(1, 11, 11, 11, 11, 11, 11, 11, 11, 11,
	IR(KBr)3502,1604,1510,1465,1383,1360,1266,1239,1227,1147,1071,1008cm-1
	1HNMR(CDCl ₃) & 3.45(8,3H), 3.72(8,3H), 3.89(8,3H), 4.48(8,2H), 5.20(8,2H), 6.81(dd .1=8.1,8.9.1Hz.1H), 6.90(4,1H), 6.90(4,1H
I-512	6.99 (m, 4H), 7.27-7.43 (m, 3H), 7.46-7.54(m, 4H)
	IR(KBr)3528,1610,1591,1517,1474,1461,1438,1388,1263,1239,1173,1140,1017,2m.1
	"HNMR(CDCl3) & 1.75(s,3H),1.79(s,3H),2.47(broads,1H),3.45(s,3H),3.73(s,3H) 3.86(s,3H) 4.59(s,9H) 4.63(4.1-6.511-911)
I-513	16(s, 1H), 5.56(d, J=6.6Hz, 1H), 6.82-6.97(m, 6H), 7.53(d, J=9.0Hz, 2H)
	IR(KBr)3477,3246,1609,1586,1518,1464,1439,1387,1266,1240,1931,1173,1141,1678,1611,1666,1609,1586,1614
	, 1101,101,101,101,101,101,101,101,101,1

	1HNMR(CDCl3) & 2.36(s,3H), 2.48(broad,1H), 3.44(s,3H), 3.72(s,3H), 3.88(s,3H), 4.60(s,9H), 5.12(s,9H)
1.514	7.19 (d, J=7.8Hz, 2H), 7.36(d,J=7.8Hz,2H), 7.52(d,J=8.7Hz,2H)
	IR(KBr)3544,3239,1614,1593,1519,1463,1386,1266,1240,1218,1173,1130,1074,1010,11
	m.p.159-160°C
1.515	1HNMR(CDCl ₃) & 3.19(s,3H),3.34(s,3H),3.79(s,3H),3.80(s,3H),5.18(ABa.J=12.3H; 9H) 6.02(s,1H) 6.02(s,1H) 6.02(s,1H)
	z,1H),7.33-764(m,11H)
	IR(KBr)3433,2937,1694,1520,1492,1369,1288,1243,1911,1176,1150,1160,1
1,516	1HNMR(CDCl ₃) & 2.91(s,3H),3.777(s,3H),3.783(s.3H),4.85(hrs 1H) 5.19/s 9H),6.97,700/,711,700 2.31
1.010	IR(KBr)3432,2938,1609,1590,1525,1494,1380,1254,1207,1174,1159,1058,1031,1
	m.p.213-215°C
1.517	1HNMR(CDCl ₃) & 2.99(s,3H),3.779(s,3H),3.804(s,3H),4.86(brs.1H),5.16(s.9H) & 83(hrs.1H), e.02/c.111), c.02/c.111
1	8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.41-7.49(m,7H),7.81(d,J=2.1H)
	IR(KBr)3409,3374,1610,1525,1491,1371,1321,1251,1208,1145,1120,1037cm-1
	powder
1.5.18	1HNMR(CDCl ₃) & 1.75(s, 3H), 1.81(s, 3H), 2.84(s, 3H), 3.21(s, 3H), 3.22(s, 3H), 3.55(s, 3H), 3.76(s, 9H), 9.76(s, 9H)
2	2H),5.59(m,1H),6.85(s,1H),7.36-7.42(m,2H),7.62(d,J=2.1Hz,1H),7.65-7.70(m,9H),7.86-7.42(m,2H),7.86-7.42(m,J=2.1Hz,1H),7.65-7.70(m,9H),7.86-7.42(m,J=2.1Hz,1H),7.65-7.70(m,9H),7.86-7.42(m,J=2.1Hz,1H),7.65-7.70(m,J=2.1Hz,1Hz,1Hz,1Hz),7.65-7.70(m,J=2.1Hz,1Hz,1Hz),7.65-7.70(m,J=2.1Hz,1Hz),7.65-7.70(m,J=2.1Hz),7.70(m,J=2.1Hz),7.7
	IR(CHCl ₃)3026,2940,1728,1510,1473,1373,1179,1150,1086cm ⁻¹
	powder
1.519	'HNMR(CDCl ₃) & 1.69(s,3H),1.74(s,3H),2.52-2.61(m,2H),2.86(s.3H),3.20(s.3H),3.91(s.3H),9.55(s.3H),9.55(s.3H),9.55(s.3H)
	4.21(t,J=6.9Hz,2H),5.26(m,1H),6.86(s,1H),7.36-7.42(m,2H),7.62(d,J=2,1Hz,1H),7.65,70(m,01H),6.86(s,1H),7.36-7.42(m,2H),7.62(d,J=2,1Hz,1H),7.65,70(m,01H),7.36-7.42(m,2H),7.62(d,J=2,1Hz,1H),7.65,770(m,01H),7.65,710(m,01H),7.36-7.42(m,2H),7.62(d,J=2,1Hz,1H),7.65,710(m,01H),7.36-7.42(m,01H),7.36(m,01H),7.3
	IR(CHCl ₃)3024,2939,1729,1511,1475,1447,1373,1179,1150,1085cm ⁻¹
	in the state of th

).

Table 104

1-520 1-520 1-1-520 1-1-520 1-1-521 1-1-521 1-1-521 1-1-521 1-1-521 1-1-522 1-1-522 1-1-522 1-1-523 1-1-524 1-1-524 1-1-524 1-1-524 1-1-524 1-1-524 1-1-524 1-1-524 1-1-524 1-1-525 1-1-524 1-1-524 1-1-524 1-1-524 1-1-524 1-1-525 1-1-524 1-1-524 1-1-524 1-1-524 1-1-524 1-1-525 1-1-524 1-1-525 1-1-524 1-1-524 1-1-525 1-1-524 1-1-525 1-1-524 1-1-525 1-1-524 1-1-525 1-1-524 1-1-525 1-1-524 1-1-525 1-1-524 1-1-525 1-1-524 1-1-525 1-1-52		powder
	1.520	¹ HNMR(CDCl ₃) δ 2.84(s,3H),3.21(s,3H),3.22(s,3H),3.56(s,3H),3.81(s,3H),3.88(s,3H) 5.30(s,9H) 6.86(s,1H) 7.9.6 (s,21,1H)
		7.37-7.42(m,2H),7.65-7.72(m,4H),7.76-7.83(m,1H),7.92(d,J=2.1Hz,1H),8.60-8.63(m,1H) IR(KBr)3434,3019,2940,1730,1511,1474,1367,1178,1151,1089,1
		powder
	1-521	¹ HNMR(CDCl ₃ +CD ₃ OD) δ 1.69(s,3H),1.77(s,3H),2.51-2.58(m.2H),3 43(s 3H) 3 73(s 3H) 4 62(s 1-6 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	-	-6.95(m,2H),7.24(d,J=1.8Hz,1H),7.46-7.52(m,2H),7.65-7.67(m,1H) IR(KBr)3434,2934,1716,1611,1402,1996,1112,1006,1007
		1 101(011)
	1.522	1HNMR(CDCl ₃ +CD ₃ OD) & 3.44(s,3H),3.75(s,3H),5.31(s.2H) & 46(s.1H) & 80.6.0E/ 911) 7.92.7.011
m.p.136-137°C 'HNMR(CDCl3) & 2.25(s,3H),2 IR(KBr)1518,1488,1357,1263,1 m.p.121-122°C 'HNMR(CDCl3) & 1.77(s,3H),1.),7.06(d,J=8.4Hz,1H),7.11(s,1H IR(KBr)1518,1487,1363,1170,1 m.p.149-151°C 'HNMR(CDCl3) & 1.77(s,3H),1. H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,11		.47-7.53(m,2H),7.56(d,J=2.4Hz,1H),7.79-7.86(m,1H),8.65-8.68(m,1H) IR(KBr)3411.2937 1683 1611 1591 1462 1662 1683 1611 1591 1462 1662 1683 1611 1591 1462 1683 1681
¹ HNMR(CDCl ₃) & 2.25(s,3H),2 IR(KBr)1518,1488,1357,1263,1 m.p.121-122°C ¹ HNMR(CDCl ₃) & 1.77(s,3H),1.),7.06(d,J=8.4Hz,1H),7.11(s,1H) IR(KBr)1518,1487,1363,1170,1 m.p.149-151°C ¹ HNMR(CDCl ₃) & 1.77(s,3H),1 H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,11		m.p.136-137°C
m.p.121-122°C ¹ HNMR(CDCl ₃) & 1.77(s,3H),1.),7.06(d,J=8.4Hz,1H),7.11(s,1H) IR(KBr)1518,1487,1363,1170,1 m.p.149-151°C ¹ HNMR(CDCl ₃) & 1.77(s,3H),1. H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,18	I-523	¹ HNMR(CDCl ₃) & 2.25(s,3H),2.29(s,3H),3.12(s,3H),3.20(s,3H),5.18(s,2H),7.11(s,1H),7.14(s,1H),7.23·7.51(m,12H) IR(KBr)1518,1488,1357,1263,1170,1150,1110,625,626,626,626,626,626,626,626,626,626
¹ HNMR(CDCl ₃) & 1.77(s,3H),1.),7.06(d,J=8.4Hz,1H),7.11(s,1H) IR(KBr)1518,1487,1363,1170,1 m.p.149-151 C ¹ HNMR(CDCl ₃) & 1.77(s,3H),1. H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,11		m.p.121.122°C
),7.06(d,J=8.4Hz,1H),7.11(s,1H) IR(KBr)1518,1487,1363,1170,1 m.p.149-151°C 'HNMR(CDCl ₃) δ 1.77(s,3H),1 H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,18	1.594	HNMR(CDCl ₃) & 1.77(s, 3H), 1.82(s, 3H), 2.25(s, 3H), 2.29(s, 3H), 3.90(c, 2H), 2.60(c, 2H), 2.60(s, 2H), 2.25(s, 3H), 2.
m.p.149-151°C ¹ HNMR(CDCl ₃) δ 1.77(s,3H),1 H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,1),7.06(d,J=8.4Hz,1H),7.11(s,1H),7.14(s,1H),7.24(d,J=2.1Hz,1H),7.31-7.45(m,5H) IR(KBr)1518.1487.1363.1170.1150.1150.0100.0100.0100.0100.0100
¹ HNMR(CDCl ₃) δ 1.77(s,3H),1 H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,1		n.p.149-151°C
H),6.82(dd,J=2.1,8.4Hz,1H),6.8 IR(KBr)3521,3395,1612,1584,1	1.525	HNMR(CDCl ₃) & 1.77(s,3H),1.83(d,J=0.6Hz,3H),2.26(s,3H) 9.98(s,3H) 4.69(4.11_0.011_1.011_1.11_1.11_1.11_1.11_1.1
IR(KBr)3521,3395,1612,1584,1522,1490,1457,128		H), 6.82 (dd, J=2.1, 8.4 Hz, 1H), 6.85-6.94 (m, 3H), 6.96 (d., J=2.1 Hz, 1H), 7.10 (d., J=2.1, 8.4 Hz, 1H), 6.85-6.94 (m, 3H), 6.96 (d., J=2.1 Hz, 1H), 7.10 (d., J=2.1, 8.4 Hz, 1H), 6.85-6.94 (m, 3H), 6.96 (d., J=2.1 Hz, 1H), 7.10 (d., J=2.1)
		$IR(KBr)3521,3395,1612,1584,1522,1490,1457,1285,1263,1242,1200,1170,1125,1014.834cm^{-1}$

1-526 J=3.3, 1.6Hz, 1H), 6.85(s, 1H), 7. 1-526 J=3.3, 1.6Hz, 1H), 6.85(s, 1H), 7. 1-1H), 7.69(d, J=8.7Hz, 2H), 7.78(IR(Nujol) 1608, 1597, 1519, 1480 foam 1-527 28(m, 4H), 7.31, (dd, J=8.4, 1.8H) IR(Nujol) 1664, 1609, 1519, 1480 foam 1-528 1,7.14(d, J=8.1Hz, 1H), 7.18(brdc, J=8.7Hz, 2H), 7.67(IR(Nujol) 1608, 1593, 1520, 1479 m.p.203-205 C HNMR(DMSO-d6) \(\delta \) 2.42(s, 3H) \(\delta \) 7.28(m, 3H), 7.48, (d, J=8.7Hz) IR(Nujol) 1599, 1518, 1480, 1466 foam	¹ HNMR(CDCl ₃) & 2.43(s,3H),2.76(s,3H),2.90(s,3H),3.22(s,3H),3.56(s,3H),3.80(s,3H),5.30(s,2H),6.28(t,J=3.3Hz,1H),6.42(dd,J=3.3,1.6Hz,1H),6.85(s,1H),7.12,(d,J=8.4Hz,1H),7.32(d,J=8.7Hz,2H),7.34~7.37(m,2H),7.39(d,J=8.7Hz,2H),7.40(d,J=1.8Hz,1H),7.69(d,J=8.7Hz,2H),7.78(d,J=8.7Hz,2H) ¹ (1H),7.69(d,J=8.7Hz,2H),7.78(d,J=8.7Hz,2H) ¹ R(Nujol)1608,1597,1519,1480,1464,1176,1152,1087,972,875,817,798cm ⁻¹ foam
7 - 7 - 7 - 7 - 7	1.798cm ⁻¹
	${}^{1}HNMR(CDCl_{3}) \delta 2.96(s,3H), 3.21(s,3H), 3.37(s,3H), 3.52(s,3H), 3.77(s,3H), 5.58(s,2H), 6.84(s,1H), 7.19(d,J=8.4Hz,1H), 7.24\sim 7.58(m,4H), 7.31, (dd,J=8.4,1.8Hz,1H), 7.33(d,J=1.8Hz,1H), 7.38(d,J=8.7Hz,2H), 7.67(d,J=8.7Hz,2H), 7.19(d,J=8.7Hz,2H), 7.110(d,J=8.7Hz,2H), $
	foam 'HNMR(CDCl ₃) & 2.73(s,3H),2.94(s,3H),3.21(s,3H),3.33(t,J=6.3Hz,2H),3.55(s,3H),3.77(s,3H),4.55(t,J=6.3Hz,2H),6.83(s,1H ',J=8.1Hz,1H),7.18(brdd,J=7.8,5.1Hz,1H),7.33(brd,J=7.8Hz,1H),7.35(dd,J=8.1,1.8Hz,1H),7.37(d,J=1.8Hz,1H),7.38(d ',J=8.7Hz,2H),7.65(m,1H),7.67(d,J=8.7Hz,2H),8.56(brd,J=5.1Hz,1H) IR(Nujol)1608,1593,1520,1479,1466,1177,1151,1079,970,872,816,798cm ⁻¹
foam	m.p.203-205°C HNMR(DMSO-d ₆) δ 2.42(s,3H),2.80(s,3H),3.45(s,3H),3.51(s,3H),3.56(s,3H),3.78(s,3H),5.36(s,2H),7.07(s,1H),7.23(s,1H),7.2 6~7.28(m,3H),7.48,(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H) IR(Nujol)1599,1518,1480,1466,1176,1081,1013,076,070,020,777,000,000,070,000,000,000,000
I-530 z,1H),7.06(d,J=8.4Hz,1H) IR(Nujol)3304,161,1590,1	foam !HNMR(CD ₃ OD) & 3.38(s, 3H), 3.68(s, 3H), 5.41(s, 2H), 6.44(s, 1H), 6.82(dd, J=8.4, 2.1Hz, 1H), 6.85(d, J=8.7Hz, 2H), 6.93(d, J=2.1Hz, 1H), 7.06(d, J=8.4Hz, 1H), 7.27(m, 2H), 7.46(d, J=8.7Hz, 2H), 7.60(m, 2H) !R(Nujol)3304, 161, 1590, 1522, 1488, 1458, 1254, 1115, 1074, 1046, 1014, 942, 825, 745, 1

_	m n 150 100%
1.531	"HNMR(DMSO-d6) & 2.92(s,3H),3.41(s,3H),3.45(s,3H),3.52(s,3H),3.79(s,3H),5.33(s,2H),7.09(s,1H),6.82~7.45(m,3H),7.49(d ,J=9.0Hz,2H),7.75(d,J=9.0Hz,2H) IR(Nujol)1604,1519,1469,1935,117,117,1002,0002,0002,0002,0002,0002,0
	m.p.214-216°C
I.532	¹ HNMR(DMSO-d ₆) & 2.84(s,3H),3.42(s,3H),3.45(s,3H),3.52(s,3H),3.73(s,3H),3.79(s,3H),4.99(s,2H),7.08(s,1H),7.24(dJ=9.3H),7.29(dd,J=9.3,1.8Hz,1H),7.24(dJ=8.7Hz,2H),7.74(d,J=8.7Hz,2H) IR(Nujol)1767,1606,1521,1481,1463,1916,1177,1177,1177,1177,1177,1177,1177
	m.p. $225-227$ °C
I-533	¹ HNMR(DMSO-d ₆) & 2.86(s,3H),3.45(s,3H),3.46(s,3H),3.52(s,3H),3.78(s,3H),4.46(s,2H),7.08(s,1H),7.20(d,J=8.4Hz,1H),7.28 -7.32(m,2H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H) -7.82(m,2H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H)
	foam
1-534	¹ HNMR(DMSO-d ₆) & 2.96(s,3H),3.45(s,3H),3.47(s,3H),3.52(s,3H),3.79(s,3H),4.64(s,2H),7.08(s,1H),7.18(d,J=8.4Hz,1H),7.31 (dd,J=8.4,1.8Hz,1H),7.34(d,J=1.8Hz,1H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H)
	m.p.163-165 C
I-535	¹ HNMR(CDCl ₃) & 2.73(s,3H),3.16(s,3H),3.21(s,3H),3.78(s,3H),4.85(ddd,J=1.5,1.5,5.4Hz,2H),5.25(s,2H),5.31,(dd d,J=1.5,3.0,10.5,Hz,1H),5.43(ddd,J=1.5,3.0,17.1Hz,1H),6.05(ddd,J=5.4,10.5,11.5,11.5,1.1,11.5,11.5,11.5,11.5,
	4(dd,J=2.1,8.7Hz,1H),7.38(d,J=8.4Hz,2H),7.41(d,J=2.1Hz,1H),7.56(d,J=8.4Hz,2H),7.67(d,J=8.4Hz,2H),7.11(d,J=8.7Hz,1H),7.3 IR(KBr)1718,1612,1519,1481,1965,1973,1172,1172,1172,1172,1172,1172,1173,1173
	1,1000,12,130,12,13,11,1,119,1080,1015,969,876cm ⁻¹

Table 107

	¹ HNMR(CDCl ₃) δ 2.68(s, 3H), 3.13(s, 3H), 3.21(s, 3H), 3.55(s, 3H), 3.68(s, 2H), 3.78(s, 3H), 4.61(ddd, J=1.5, 1.5, 5.7Hz, 2H), 5.17(s, 2 H), 5.23, (ddd, J=1.5, 3.0, 10.5, Hz, 1H), 5.28(ddd, J=1.5, 3.0, 16.8Hz, 1H), 5.91(ddd, J=5.7, 10.5, 16.8Hz, 1H), 6.84(s, 1H), 7.13(d, J=8.4 Hz, 1H), 7.33(d, J=8.1Hz, 2H), 7.34(dd, J=2.1, 8.4Hz, 1H), 7.38(d, J=8.4Hz, 2H), 7.40(d, J=2.1Hz, 1H), 7.42(d, J=8.1Hz, 2H), 7.68(d, J=8.4Hz, 2H) -8.4Hz, 2H) -8.4Hz, 2H) -8.4Hz, 2H)
	1 1 1000, 1200, 1200, 11 ()
	m.p.227-229°C 'HNMR(CDCl ₃) δ 2.73(s,3H),3.16(s,3H),3.21(s,3H),3.54(s,3H),3.77(s,3H),5.26(s,2H),6.83(s,1H),7.11(d,J=12.3Hz,2H),7.32(s,1H),7.37(d,J=12.3Hz,2H),7.41(s,1H),7.57(d,J=12.3Hz,1H),7.66(d,J=12.3Hz,2H),8.13(d,J=12.3Hz,2H) R(KBr)3430.1694.1612.1519.1481.1365.1177.1171.1026.222
	m.p.149-151 °C i.hNMR(CDCl ₃) δ 2.66(s,3H),3.13(s,3H),3.21(s,3H),3.55(s,3H),3.68(s,2H),3.77(s,3H),5.17(s,2H),6.84(s,1H),7.13(d,J=8.4Hz,1H),7.30-7.55(m,4H),7.38(d,J=8.4Hz,2H),7.67(d,J=8.4Hz,2H),7.67(m,2H) IR(KBr)3423,1716,1610,1519,1481,1365,1925,1177,1151,110,1519,1481,1365,1925,1177,1151,161,1610,1519,1481,1365,1197,1151,110,1611
1-539 2H),7.15(d,J=8.4Hz,1H),7.34(d Hz,2H) IR(KBr)1760,1519,1481,1365,1	m.p.144·146°C !HNMR(CDCl ₃) & 2.32(s,3H),2.69(s,3H),3.14(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.18(s,2H),6.84(s,1H),7.14(d,J=8.7Hz, Hz,2H),7.40(d,J=2.1Hz,1H),7.48(d,J=8.7Hz,2H),7.67(d,J=8.4Hz,2H) Hz,2H) !R(KBr)1760,1519,1481,1365,1177,1151,1119,1070,070,070,070,070,070,070,070,070,07
m.p.228-231°C ¹ HNMR(CDCl ₃) δ 2.81(s,3H),3 ¹ -2.1,8.4Hz,1H),7.39(d,J=8.4H	m.p.228-231°C !HNMR(CDCl ₃) δ 2.81(s, 3H), 3.20(s, 3H), 3.21(s, 3H), 3.55(s, 3H), 5.30(s, 2H), 6.85(s, 1H), 7.11(d, J=8.4Hz, 1H), 7.35(dd ,J=2.1,8.4Hz, 1H), 7.39(d, J=8.4Hz, 2H), 7.41(d, J=2.1Hz, 1H), 7.67(d, J=8.4Hz, 2H), 7.69(d, J=8.7Hz, 2H), 8.28(d, J=8.7Hz, 2H) IR(KBr)1608.1521.1481.1361.1179.1148.1260.220.220.220.220.220.220.220.220.220.

	m.p.153-156°C
1.541	¹ HNMR(CDCl ₃) δ 1.53(s,9H),2.69(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.19(s,2H),6.84(s,1H),7.10(dd,J=7.5,7.5Hz,1H),7.17(d,J=7.5Hz,1H),7.23(d,J=8.4Hz,1H),7.26(dd,J=7.5,7.5Hz,1H),7.33(d,J=7.5Hz,1H),7.37(dd,J=2.1,8.4Hz,1H),7.33(d,J=8.4Hz,2H),7.40(d,J=2.1Hz,1H),7.67(d,J=8.4Hz,2H)
	m.p.178-182°C
1.542	¹ HNMR(CDCl ₃) δ 2.70(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.14(s,2H),6.76(m,2H),6.84(s,1H),7.19(m,2H),7.26 (d,J=8.7Hz,1H),7.37(d,J=2.7Hz,1H),7.36(dd,J=2.7,8.7Hz,1H),7.38(d,J=8.7Hz,2H),7.68(d,J=8.7Hz,2H)
	m.p.187-189°C
I-543	$^{1}HNMR(CDCl_{3}) \ \delta 2.38(s,3H), 3.39(s,3H), 3.45(s,3H), 5.11-5.14(m,3H), 5.89(s,1H), 6.33(s,1H), 6.88-6.94(m,2H), 7.20-7.36(m,6H), 7.43(d,J=2.1Hz,1H), 7.76(d,J=0.6Hz,1H)$
	IR(KBr)3414,2942,1613,1534,1469,1355,1266,1172,1092,1030cm ⁻¹
	m.p.207-215°C(dec.)
I-544	¹ HNMR(d6-DMSO)
	$1 R(KBr) 3388, 3301, 2932, 1612, 1591, 1521, 1458, 1413, 1288, 1030 cm^{-1}$ m.p.108-110°C
	¹HNMR(CDCl₃) δ 1.69(s,3H),1.74(s,3H),249-2.59(m,2H),3,03(s.3H) 3.20% 3H) 9.56% 3H) 9.56% 3H
I-545	93(s, 2H), 5.22(m, 1H), 6.66(s, 1H), 7.04(d, J=8.7Hz, 1H), 7.09-7.17(m, 2H), 7.37(dd, J=2.1, 8.7Hz, 1H), 7.44(d, J=2.1Hz, 1H), 7.51-7.5 (m, 2H)
	IR(KBr)3434,2933,1604,1521,1473,1383,1360,1978,1160,1160,1160,1160,1160,1160,1160,116
	121,121,131,131,1300,1300,1278,1160,1121,1084,1017cm ⁻¹

	m.p.109-110°C
1.546	"HNMR(CDCl ₃) & 1.69(s,3H),1.75(s,3H),248-2.58(m.2H) 4 07(t.1=6 6Hz 9H) 5 99(z.11) 5 99(z.11) 5
	93-6.95(m,2H),7.04-7.06(m,1H),7.10-7.18(m,2H),7.58-7.64(m,2H)
	m.p.141-142 C
1.547	¹ HNMR(CDCl ₃) δ 3.03(s,3H),3.57(s,3H),3.75(s,3H),4.90(s,2H),5.16(s,2H),5.65(brs,1H),6.66(s,1H),6.92(dd,J=1.8,8.4Hz,1H),6.99(dd,J=1.8,8.4Hz,1H),7.10-7.17(m,2H),7.35-7.47(m,5H),7.52-7.59(m,2H)
	m.p.133-136°C
I-548	¹ HNMR(CDCl ₃) δ 2.98(s,3H),3.12(s,3H),3.56(s,3H),3.75(s,3H),4.94(s,2H),5.18(s,2H),6.67(s,1H),7.09-7.17(m.3H),7.34-7.490
	IR(KBr)3434.2941 1598 1510 1481 1303 1307 1303
	m.p.161.162C
1.549	1HNMR(CDCl3) & 3.10(s,3H),3.42(s,3H),3.76(s,3H),5.17(s,2H),6.05(s,1H),6.44(s,11),7.1.5.1.5.1.5.1.5.1.5.1.5.1.5.1.5.1.5.1.
•	d,J=2.1Hz,1H),7.57-7.65(m,2H)
	IR(KBr)3488,2938,1613,1523,1486,1990,1992,1167,1921,1932
	m.p.113-115°C
I-550	1HNMR(CDCl3) & 2.37(s,3H),2.98(s,3H),3.11(s,3H),3.56(s,3H),3.75(s,3H),4.03(s,9H),4.03(s,9H),5.13(s,9H),4.03(s,
	7.18-7.23(m,2H),7.32-7.39(m,3H),7.45(d,J=1.8Hz,1H),7.51-7.58(m,9H)
	IR(KBr)3434,2934,1738,1601,1520,1478,1466,1376,1956,1956,1956,1956,1956,1956,1956,195
	, 120, 1210, 1210, 1210, 1236, 1236, 1169, 1010, 1014cm - 1

Table 110

HINMR(CDCIs,) 6 2.38(s,3H),3.04(s,3H),3.57(s,3H),3.74(s,3H),4.90(s,2H),5.11(s,2H),5.63(s,1H),6.66(s,1H),6.91(dd,J=2.1,8.7)	m.p.138·140°C	
	¹ HNMR(CDCl ₃) <i>δ</i> 2.38(s,3H),3.04(s,3I 4Hz,1H),6.99(d,J=8.4Hz,1H),7.05(d,J=	7.05(d,J=1.8Hz,1H),7.08-7.17(m,2H),7.22(d,J=7.8Hz,2H),7.33(d,J=7.8Hz,9H),6.63(s,1H),6.91(dd,J=2.1,8.
		1Z'm)607-7071(117'7110')-0'n)00'''''
	1K(KBr)3446,2934,1601,1518,1476,146	.,1379,1252,1224,1158,1092,1011cm ⁻¹
	"HNMR(CDCl ₃) \(\delta\) 2.38(s,3H),3.10(s,3F) 8Hz,2H),7.42(dd,J=2.4,8.7Hz,1H),7.51	,3.42(s,3H),3.75(s,3H),5.12(s,2H),6.04(s,1H),6.43(s,1H),7.11-7.25(m,5H),7.35(d,J= 1,J=2.4Hz,1H),7.57-7.65(m,2H)
	m.p.149-150°C	, 1282, 1226, 1163, 1106, 107 1cm ⁻¹
IR(KBr)1524,1485,1354,1292,1 m.p.92-93°C 'HNMR(CDCl ₃) & 1.69(s,3H),1. t,J=7.2Hz,2H),5.22(m,1H),7.05 IR(KBr)1518,1488,1355,1293,1 m.p.126-127°C 'HNMR(CDCl ₃) & 1.77(s,3H),1 7(m,2H),7.36-7.43(m,2H),7.50(c IR(KBr)1527,1489,1359,1295,1	HNMR(CDCl ₃) δ 3.13(s,3H),3.21(s,3H H),7.60-7.67(m,2H)	,5.20(s,2H),7.17(d,J=8.4Hz,1H),7.24(m,1H),7.36-7.54(m,9H),7.58(dd,J=1.2,2.4Hz,1
m.p.92-93°C 'HNMR(CDCl ₃) δ 1.69(s,3H),1. t,J=7.2Hz,2H),5.22(m,1H),7.05 IR(KBr)1518,1488,1355,1293,1 m.p.126-127°C 'HNMR(CDCl ₃) δ 1.77(s,3H),1 7(m,2H),7.36-7.43(m,2H),7.50(c IR(KBr)1527,1489,1359,1295,1	1354,1292,1	
¹ HNMR(CDCl ₃) δ 1.69(s,3H),1. t,J=7.2Hz,2H),5.22(m,1H),7.05 IR(KBr)1518,1488,1355,1293,1 m.p.126-127 C ¹ HNMR(CDCl ₃) δ 1.77(s,3H),1 7(m,2H),7.36-7.43(m,2H),7.50(c IR(KBr)1527,1489,1359,1295,1		,1100,1114,977,869,858.850,812,796 cm ⁻¹
It,J=7.2Hz,2H),5.22(m,1H),7.05 IR(KBr)1518,1488,1355,1293,1 m.p.126-127C 'HNMR(CDCl ₃) & 1.77(s,3H),1 7(m,2H),7.36-7.43(m,2H),7.50(c IR(KBr)1527,1489,1359,1295,1	HNMR(CDCl ₃) δ 1.69(s,3H),1.74(d,J=	74(d,J=1.2Hz,3H),2.25(s,3H),2.28(s,3H),2.56(dt,J=6.6,7.2Hz,2H),3.20(s,3H),3.91(s,3H),4.07(
m.p.126-127°C ¹ HNMR(CDCl ₃) δ 1.77(s,3H),1. ⁷ (m,2H),7.36-7.43(m,2H),7.50(c ¹ IR(KBr)1527,1489,1359,1295,1	,J=7.2Hz,2H),5.22(m,1H),7.05(d,J=8.4 R(KBr)1518,1488,1355,1293,1264,116	z,1H),7.11(s,1H),7.13(s,1H),7.25(dd,J=2.1,8.4Hz,1H),7.31-7.43(m,5H)
¹ HNMR(CDCl ₃) δ 1.77(s,3H),1. 7(m,2H),7.36-7.43(m,2H),7.50(c IR(KBr)1527,1489,1359,1295,1		. 1103,310,012,818cm ·
7(m,2H),7.36-7.43(m,2H),7.50(c IR(KBr)1527,1489,1359,1295,1	HNMR(CDCl ₃) δ 1.77(s,3H),1.82(s,3H	3.20(s,3H),3.23(s,3H),4.65(d,J=6.6H2.9H),5.50(m, 1H),7.10(1,1.0)
1K(KBr)1527,1489,1359,1295,1266,1177,1153,1118,974,894,874cm ⁻¹	(m,2H),7.36-7.43(m,2H),7.50(dd,J=1.5	.7Hz,1H),7.55(d,J=1.5Hz,1H),7.60-7.66(m.2H)
	K(KBr)1527,1489,1359,1295,1266,117	1153,1118,974,894,874cm ⁻¹

Table 111

	m.p.154-155°C
I-556	1HNMR(CDCl ₃) & 2.25(s,3H),2.28(s,3H),2.38(s,3H),3.11(s,3H),3.20(s,3H),5.13(s,2H),7.11(s,1H),7.14(s,1H),7.10,7.09(z,4H)
)	7.31-7.43(m,7H)
	IR(KBr)1520,1487,1365,1284,1260.1192 1172 1152 1108 067 867 908 705 1
	m.p.112-113°C
1.557	¹ HNMR(CDCl ₃) δ 1.69(s,3H),1.76(s,3H),2.26(s,3H),2.27(s,3H),2.54(dt,J=7.2,6.9Hz,2H),4.07(t,J=6.9Hz,2H),4.86(s,1H),5.23(m,1H),5.71(s,1H),6.82(dd,J=2.1,8.4Hz,1H),6.85-6.93(m,3H),6.96(d,J=2.1Hz,1H),7.10(s,1H),7.12(s,1H),7.22-7.27(m,2H)
	m.p.141-142 $\mathbb C$
I-558	¹ HNMR(CDCl ₃) & 1.77(s,3H),1.82(s,3H),4.63(d,J=6.9Hz,2H),5.06(s,1H),5.52(m,1H),5.75(s,1H),6.89-6.97(m,3H),7.07(dt,J=8 -4,1.8Hz,1H),7.14-7.23(m,3H),7.44-7.51(m,2H)
	m n 170 180°C
1.559	"HNMR(CDCl ₃) & 2.26(s,3H),2.28(s,3H),2.39(s,3H),4.81(s,1H),5.11(s,2H),5.70(s,1H),6.83(dd,J=2.1,8.4Hz,1H),6.86-6.91(m,2 H),6.98(d,J=8.4Hz,1H),6.98(d,J=2.1Hz,1H),7.10(s,1H),7.12(s,1H),7.21-7.28(m,4H),7.32-7.38(m,2H) IR(KBr)3317 1609 1520 1480 1426 1276 1247 1642 1642 1642 1642 1642 1642 1642 1642
	foam
1.560	'HNMR(DMSO-ds) & 3.74(s,3H),3.75(s,3H),4.62(d,J=5.0Hz,2H),5.02(t,J=5.0Hz,1H),5.19(s,2H),6.94(s,1H),6.99(s,1H),7.06(d,J=8.0Hz,1H),7.22(ddd,J=8.6,2.0,0.8Hz,1H),7.32-7.52(m,8H),7.57(d,J=2.4Hz,1H),9.91(brs,1H)
	1035, 104, 137cm, 1302, 1201, 1035, 764, 737cm

Table 112

1-561	m.p.147-148 C 'HNMR(CDCl ₃) \(\delta \) 3.27(s,3H),3.79(s,3H),5.26(s,2H),6.92(s,1H),6.95(s,1H),7.13(d,J=8.7Hz,1H),7.35-7.50(m,8H),7. 80(dd,J=8.7,2.7Hz,1H),8.05(d,J=2.7Hz,1H),10.62(s,1H)
	m.p.189·191°C
1.562	¹ HNMŘ(DMSO-d ₆) δ 3.53(s,3H),3.80(s,3H),3.20(s,2H),7.05(s,1H),7.10(s,1H),7.25(d,J=8.7Hz,1H),7.30-7.59(m,7 H),7.66(dd,J=11.7,2.1Hz,1H),7.67(dd,J=8.7,2.3Hz,1H),7.84(d,J=2.3Hz,1H),12.7(brs,1H)
	m.p.204-207°C
1-563	'HNMR(CDCl ₃) δ 1.36(s,9H),3.20(s,3H),3.41(s,3H),3.74(s,3H),5.15(s,2H),5.65(s,1H),5.77(s,1H),6.80(s,1H),6.83(dd,J=8.4,2.0Hz,1H),6.96(d,J=2.0Hz,1H),6.98(d,J=8.4Hz,1H),7.34-7.45(m,7H),7.68(d,J=8.7Hz,2H) IR(KBr)3408,3337,1692,1498,1474,1466,1947,1957,1957,1957,1957,1957,1957,1957,195
	m.p.179-182°C
I-564	¹ HNMR(DMSO-d ₆) δ 3.76(s,3H),3.76(s,3H),5.26(s,2H),6.99(s,1H),7.00(t,J=8.7Hz,1H),7.01(s,1H),7.22(ddd,J=8.7,2.4Hz,J=1. 2Hz,1H),7.24(d,J=8.9Hz,1H),7.32-7.54(m,6H),7.65(dd,J=8.9,2.4Hz,1H),7.82(d,J=2.4Hz,1H),9.91(s,1H),12.6(brs,1H) 1R(KBr)3422.3277.1726,156,1401,1416,1306,1301,1316,1316,1316)
	m.p.178-180°C
1.565	¹ HNMR(DMSO-d ₆) δ 3.30(s,3H),3.43(s,3H),3.61(s,3H),4.31(s,2H),5.14(s,2H),6.25(s,1H),6.61(dd,J=8.4,1.9Hz,1H),7.05(d,J=8.4,1Hz,1Hz,1H),7.05(d,J=8.4,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz
	, 1000, 1010, 1401, 1300, 1245, 1147, 1119, 1010, 871cm ⁻¹

Table 113

	foam
1 566	¹ HNMR(DMSO-d ₆) δ 3.27(s,3H),3.59(s,3H),4.21(s,2H),5.13(s,2H),6 17(s,1H),6 60(dd 1-8 3.1 μμς 1 μχς 2.1 μς 1 μχς 2.1 μχς 2
000-1	.82(d,J=8.4Hz,2H),7.03(d,J=8.3Hz,1H),7.33-7.53(m,7H),9.07(brs,1H),9.45(brs,1H)
	IR(KBr)3390,1609,1592,1522,1484,1247,1227,1119,1011,812cm ⁻¹
	m.p.146-148°C
	1HNMR(DMSO-dc) & 1.64(s,3H), 1.70(s,3H), 2.44(q, J=6.9Hz, 2H) 3.53(s,3H) 3.78(s,3H) 3.80(c,3H) 4.62(c,3H) 4.62(c,3H)
I-567	J=6.9Hz,2H),7.05(s,1H),7.10(s,1H),7.19(d,J=8.4Hz,1H),7.50(dd,J=8.4 9.0Hz,1H),7.60(s,on),4.05(s,on),4.05(s,on),5.26(t,on),5.26(t,on),5.26(t,on),7.05(s,on),7.10(s,on),
\	Hz,1H),7.66(dd,J=11.9,1.9Hz,1H),7.79(d,J=2.0Hz,1H),12.5(brs.1H)
	IR(KBr)3434,3299,1727,1489,1375,1341,1209,1172,1033,851,8945m-1
	m.p.179-181°C
1,568	¹ HNMR(CDCl ₃) δ 1.31(s,9H),3.11(s,3H),3.20(s,3H),3.39(s,3H),3.74(s,3H) 5 16(s,9H) 5 08(s,1H) 6 76(s,1H)
000-1	1H), $7.29(dd, J=8.5, 1.9Hz, 1H), 7.35-7.49(m, 8H), 7.66(d, J=8.7Hz, 2H)$
	IR(KBr)3404,3341,1690,1517,1465,1369,1348,1174,1151.869.814cm ⁻¹
	m.p.189-191°C
1.560	1HNMR(DMSO.dc) & 3.31(s,3H),3.33(s,3H),3.43(s,3H),3.64(s,3H),4.48(s,9H) 5.25(2.9H) 6.96(2.11), 2.96(3.11), 2.96(3.11), 3.43(s,3H),3.43(s,3H),3.44(s,3H),4.48(s,9H),5.25(s,9H),6.96(s,3H),6.96(s,3H),7.48(s,3H),7.
000	,7.24(d,J=2.0Hz,1H),7.34-7.46(m,6H),7.52-7.55(m.2H),7.04(d,J=9.0Hz,1H)
	IR(KBr)3490,3392,1596,1518,1483,1364,1150.872,813cm ⁻¹
	m.p.194·196℃
1.570	¹ HNMR(CDCl ₃) § 3.07(s,3H),3.22(s,3H),3.36(s,3H),5.16(s,2H),6.99(s,1H),7.13(4,1–8,6H-11),7.52(s,1H),7.00(s,1H),7.13(s,
2	Hz,1H),7.29(d,J=2.1Hz,1H),7.36-7.47(m,7H),7.63(brs,1H),7.67(d,J=8.4Hz,9H)
	IR(KBr)3433,3329,1737,1518,1476,1369,1168,1148,878cm-1

Table 114

1-571	"HNMR(CDCI3) & 2.31(s,3H),2.38(s,3H),3.12(s,3H),3.45(s,3H),3.58(s,3H),3.76(s,3H) 5.14(s,9H) 6.05(c,110) 7.11 7.00 2.31
	7.34-7.37(m,4H), 7.57(dd,J=8.7,2.4Hz,1H), 7.66(d,J=2.4Hz,1H) 1R(CHCl ₃)2952, 1732, 1614, 1599, 1518, 1467, 1445, 1520, 1520, 1520, 1520, 1520, 1530, 1540,
	m.p.218-220°C HNMR(CDCl ₃) & 2.38(s,3H),3.12(s,3H),3.44(s,3H),3.63(s,3H),3.76(s,3H),5.14(s,2H),6.80-6.83(m.2H) and and an arrangement of the control of the
1.572	1H),7.14(d,J=8.7Hz,1H),7.21-7.23(m,4H),7.35-7.37(m,2H),7.56(dd,J=8.7,2.4Hz,1H),7.66(d,J=2.4Hz,1H) IR(CHCl ₃)3596,2939,1720,1613,1522,1466,1445,1370,1346,1291,1258,1183,1172,1116,1081,1064,1003,973.904.866,837cm
	m.p.197.199C ¹ HNMR(CD ₃ OD) & 3.196.3H) 3.436.3U) 9.500.
I.573	m,2H),7.60(dd,J=8.4,2.4Hz,1H),7.66(d,J=2.4Hz,1H)
	$IR(KBr) 3421, 2941, 1738, 1708, 1643, 1519, 1472, 1354, 1297, 1259, 1228, 1171, 1119, 1081, 1063, 1001, 958, 920, 871, 826, 755, 697, 524 cm^{-1}$
	m.p.151-153°C'HNMR(CDCl ₃) \$ 2.39(s,3H),3.44(s,3H),3.64(s,3H),3.74(s,3H) \$ 19/e,9H) \$ 7804013, \$ 7.50
I-574	2.
	IR(CHCl ₃)3595,3541,2952,1730,1612,1591,1521,1474,1395,1345,1323,1290,1258,1173,1129,1081,1063,1004,901,863,836c m ⁻¹
	m.p.195-196°C
	¹ HNMR(CD ₃ OD) δ 2.34(s,3H),3.40(s,3H),3.72(s,3H),5.16(s,2H) 6.75-6.78(m,9H),6.6%, 110,5.6%
I-575	6-7.39(m,2H)
	IR(KBr)3530,3398,2942,1708,1610,1593,1520,1465,1373,1334,1256,1233,1127,1078,1056,996,960,864,824,721,721,722
	1,605,534cm - 1

Table 115

I-576 1HNMR(CDCI .07-7.12(m,4H) .IR(CHCI:)2930 m.p.126-128°C 1HNMR(CD:)0 I-577 29(m,1H),7.04 IR(KBr)3432,2	¹ HNMR(CDCl ₃) δ 1.70(s,3H),1.75(s,3H),2.54-2.59(m,2H),3.24(s,3H),3.50(s,3H),3.77(s,3H),4.10(t,J=6.9Hz,2H),5.23(m,1H),7.07-7.12(m,4H),7.23-7.28(m,2H),7.57(dd,J=8.7,2.4Hz,1H),7.63(d,J=2.4Hz,1H),9.99(s,1H)
 	28°C
	HNMR(CD ₃ OD) § 1.70(s,3H),1.74(d,J=0.9Hz,3H),2.53-2.61(m,2H) 3.25(s,3H) 3.44(s,2H) 2.75(s,2H) 4.4(s,2H)
IR(KBr)34	29(m,1H),7.04-7.11(m,3H),7.24(d,J=8.7Hz,1H),7.33-7.38(m.2H),7.58-7.65(m.9H)
	IR(KBr)3432,2940,2566,1735,1711,1646,1613,1519,1470,1447,1366,1967,1964,1988,1179,1116,1981,1981,1981
98,871,828	98,871,828,796,695,524cm ⁻¹
m.p.202-204°C	14 C
L.578 HNMR(CI	1HNMR(CDCl ₃) § 3.13(s,3H),3.45(s,3H),3.61(s,3H),5.16(s,3H),5.19(s,2H) 6.95(s,1H),7.05.7,11(s,0H),7.05.7,11(s,0H)
	30-7.49(m,7H),7.57(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H)
IR(CHCl ₃)2	IR(CHCl ₃)2952,1731,1603,1519,1472,1445,1371,1345,1991,1179,1150,1117,1981,1981,1981,1981
m.p.197-199°C	9°C
1.570 HNMR(CI	¹ HNMR(CDCl ₃) δ 2.71(s, 3H), 3.56, (s, 3H), 3.75(s, 3H), 5.18(s, 2H), 5.72 (s, 1H), 6.86(s, 1H), 7.00(4, 1–9, 4H, 4H, 2H, 2H, 2H, 2H, 2H, 2H, 2H, 2H, 2H, 2
	.24(d,J=2.1Hz,1H),7.38-7.46(m,7H)
IR(CHCl ₃)3	IR(CHCl ₃)3543,2939,1602,1521,1482,1465,1394,1370,1328,1254,1178,1150,1120,120,120,120,120,120,120,120,120,1
m.p.199-201C	1°C
'HNMR(CI	¹ HNMR(CD ₃ OD) δ 3.40(s,3H),3.73(s,6H),5.22(s,2H),7.00(s,1H),7.03.7.11(m,4H),7.17(m,1
I-580 H)	7.49-7.52(m,51), 7.31-7.41(m,5H), 7.49-7.52(m,5H), 7.49-7.52(m,5H)
IR(KBr)352	IR(KBr)3527,3434,2940,1701,1591,1518,1465,1380,1335,1320,1291,1270,1222,1161,1130,1078,1056,1009,916,969,937,7
7,698,633,5	7,698,633,599,526,480cm ⁻¹

Table 116

	m.p.122-123°C
1.581	1HNMR(CDCl ₃) & 1.78(s,3H),1.82(s,3H),3.25(s,3H),3.50(s,3H),3.76(s,3H),4.66(3,1-6.01, 01), 2.50(s,3H)
	7.23-7.27(m,2H),7.56(dd,J=8.7,2.1Hz,1H),7.63(d,J=2.1Hz,1H),9.99(s,1H)
	IR(CHCl ₃)2938,1679,1604,1591,1517,1469,1445,1371,1331,1292,1179,1159,1009,1009,1004,055
	m.p.158-159°C
1.589	¹ HNMR(CDCl ₃) δ 2.69(s, 3H), 3.13(s, 3H), 3.57(s, 3H), 5.19(s, 9H) & 95(2.11), 7.15, 7.15
700-1	dd,J=9.0,2.1Hz,1H),7.62(d,J=2.1Hz,1H)
	IR(CHCl3)2939,1603,1521,1482,1464,1294,1253,1177,1118,1262,1222,1223,1231,127,1118,1262,1262,1262,1263,1263,1263,1263,1263
	m.p.145-147°C
1.583	1HNMR(CDCl ₃) & 2.68(s,3H),3.54(s,3H),3.56(s,3H),3.75(s,3H),5.91/s,9H) = 97/s,9H
	23(m,3H),7.33-7.49(m,8H)
	IR(CHCl ₃)2938,1731,1603,1520,1482,1370,1249,1178,1158,1134,1081,1081,1081,1081,1081,1081,1081,108
	m.p.160-162°C
1.584	¹ HNMR(CDCl ₃) δ 3.47(s,3H),3.74(s,3H),5.18(s,2H),5.72(s,1H) 6.00(s,1H) 6.46(s,1H) 6.46(s,1H) 6.46(s,1H)
5	27(d,J=2.1Hz,1H),7.36-7.48(m,7H)
	IR(CHCl ₃)3540,2938,1603,1568,1522,1490,1464,1416,1396,1925,1963,1156,1156,1156,1156
	m.p.133-134°C
	1HNMR(CD ₃ OD) & 1.80(d,J=0.9Hz,3H),1.82(d,J=0.9Hz,3H) 3.96(s,3H) 2.44(z,9H)
I-585	H),7.06-7.12(m,3H),7.26(d,J=8.7Hz,1H),7.34-7.36(m,2H),7.58-7.69-7.10(m,3H),4.71(d,J=6.9Hz,2H),5.55(m,1
	IR(KBr)3422,2939,1736,1702,1603,1519.1472,1368,1293,1193,1172,1172,1172,1172,1172,1172,1172,117
	23cm ⁻¹

Table 117

1-586	m.p.152-153°C 'HNMR(CDCla) δ 1.69(s,3F Hz,2H),5.22(m,1H),6.95(s,1)
	m.p.132-133°C
I-587	¹ HNMR(CDCl ₃) δ 3.44(s,3H),3.61(s,3H),3.75(s,3H),5.18(s,2H),5.71(s,1H),6.95(s,1H),6.99-7.10(m,3H),7.17(dd,J=8.4,2.1Hz,1 H),7.25-7.47(m,8H)
	IR(CHCl ₃)3542,2952,2938,1731,1597,1519,1474,1392,1345,1321,1290,1266,1159,1130,1080,1063,1089,003,003,003
	m.p.92-94°C
	1HNMR(CDCl ₃) δ 1.69(d,J=0.6Hz,3H), 1.76(d,J=1.2Hz,3H), 2.51.2 58(m, 9H), 9.456, 913, 9.457, 913, 913, 913, 913, 913, 913, 913, 913
1.588	
Ś	
	IR(KBr)3534,3432,2936,1713,1597,1519,1473,1377,1329,1260,1931,1159,1130,1001,0001,0001,0001,0001,0001,000
	05,521cm ⁻¹
	m.p.120-122°C
1.589	1HNMR(CDCl ₃) & 1.69(s,3H),1.76(s,3H),2.51-2.58(m.2H),3.44(s,3H),3.61(s,2H),2.75(s,2H),2.75(s,3H)
	73(s,1H),6.92(d,J=8.4Hz,1H),6.96(s,1H),7.04-7.10(m,2H),7.16(dd,J=8.1,1.8Hz,1H),7.23(d,J=1.8Hz,1H),7.31(d,J=1
	m.p.154-156°C
1.590	¹ HNMR(CDCl ₃) δ 1.77(s, 3H), 1.82(s, 3H), 3.24(s, 3H), 3.45(s, 3H), 3.61(s, 3H), 2.72(s, 2H), 2.72(s, 2H), 3.72(s, 3H), 3.72(s, 3H)
	1H),7.05-7.11(m,3H),7.31-7.35(m,2H),7.57(dd,J=8.7,2.4Hz,1H),7.64(d,J=2.4Hz,1H)
	11K(CHCl ₃)2938,1731,1602,1519,1472,1445,1370,1345,1290,1186,1116,1080,1064,1003,973,904,840cm ⁻¹
	1110010120101011

Table 118

	m.p.181.182°C
1.591	¹ HNMR(CD ₃ OD) δ 1.77(s,3H),1.80(d,J=0.9Hz,3H),3.42(s,3H),3.74(s,3H),4.65(d,J=6.9Hz,2H),5.55(m,1H),6.99-7.11(m,5H),7
	(HZ,M)05.1-20.1,(111,411,12H)
	1K(KBr)3529,3424,2937,1714,1598,1519,1473,1417,1372,1336,1321,1258,1235,1157,1129,1080,1062,1004,989,917,854,83 9,807,791,752,703cm ⁻¹
	m.p.109-110°C
1.509	1HNMR(CDCl ₃) & 1.78(s,3H), 1.83(s,3H), 3.44(s,3H), 3.61(s,3H), 3.75(s,3H), 4.63(d, 1-6.6Hz, 9H), 5.50(-11)
	J=8.1Hz,1H),6.96(s,1H),7.04-7.10(m,2H),7.16(dd,J=8.4,2.1Hz,1H),7.23(d,J=2.1Hz,1H),7.31-7.36(m,2H) IR(CHCl ₃)3538.2938.1731.1598.1519.1473.1301.1345.1501.136(m,2H)
	m.p.185-187 $\%$
1.503	1HNMR(CDCl3) § 3.78(s,3H),3.80(s,3H),4.82(s,1H),6.61(m,1H) 6 88-6 93/m 9H) 6 96/2 1113 7 6/2 1113 2 6/2 1
000-1	(d,J=0.9Hz,1H),7.48-7.53(m,2H),7.83(d,J=0.9Hz,1H),8.18(brs.1H)
	IR(KBr)3600-3200(br),1611,1523,1496,1464,1447,1388,1968,1968,1968,1968,1968,1968,1968,19
	m.p.188-189°C
1.594	¹ HNMR(CDCl ₃) & 3.19(s,3H),3.79(s,3H),6.61-6.62(m,1H) 6.96(s,1H) 7.06(c,1U) 7.94 7.95 (m, 1H)
),7.45(brs,2H),7.64.7.68(m,2H),7.84(d,J=0.9Hz,1H),8.21(brs,1H)
	1R(KBr)3600-3200(br),1518,1494,1465,1419,1389,1351,1331,1314,1213,1177.1145.1051.1097cm-1
	m.p.98-101°C
	1HNMR(CDCl ₃) & 1.77(s, 3H), 1.78(s, 3H), 1.82(s, 3H), 1.85(s, 3H), 3.78(s, 3H), 3.79(s, 3H), 4.56(3, 1 ₂ , 21), 2.71(s, 3H), 2.71(s, 3H), 2.71(s, 3H), 2.71(s, 3H), 2.71(s, 3H), 2.71(s, 3H), 3.71(s,
1.595	H),5.39-5.44(m,1H),5.52-5.57(m,1H),6.53(d,J=3.0Hz.1H),6.97-7.03(m,4H),7.19(3.1-3.21),7.19(3.1-3.21),7.19(3.1-3.21)
	J=1.8,8.7Hz,1H),7.52-7.57(m,2H),7.81(d,J=1.5Hz,1H)
	IR(KBr)3600-2800(br), 1606, 1498-1476-1463-1389-1969-1941-1966-1155-155-155-155-1569-1941-1966-1156-1156-1156-1
	1,1052,1030cm ⁻¹

Table 119

	m.p.207-210°C	
1.506	1HNMR(CDCl ₃) & 3.19(s,3H),3.80(s,3H),3.81(s,3H),5.50(s,2H),6.65(d,J=3.0Hz,1H) & 81(d,J=7.8Hz,1H) & 96(c,1H) & 96(c,1H)	
	H), 7.19-7.22(m,1H), 7.25-7.45(m,6H), 7.54-7.60(m,1H), 7.64-7.69(m,2H), 7.86(brs,1H), 8.61-8.64(m,1H) IR(KBr)3600-3200(br), 1496, 1478, 1364, 1347, 1940, 1478, 1486, 1478, 1486, 1	
	m.p.222-224°C	
I-597	¹ HNMR(CDCl ₃) & 2.36(s,3H),2.53(s,3H),3.77(s,3H),3.78(s,3H),6.69(dd,J=0.9,4.2Hz,1H),6.95(s,1H),6.96(s,1H),7.23-7.28(m,2H),7.31-7.35(m,2H),7.51-7.54(m,3H),7.59(d,J=3.3Hz,1H),7.73(d,J=1.2Hz,1H),7.80-7.84(m,2H),8.03(d,J=1.2Hz,1H)	
	m.p.126-127°C	
1 500	1HNMR(CDCl3) & 1.69(s,3H), 1.71(d,J=0.9Hz,3H), 2.56(dt,J=6.6.6.9Hz,2H) 3.90(s,3H) 3.99(s,3H) 4.99(s,1H)	
1-030	,1H),7.08(d,J=8.4Hz,1H),7.18-7.27(m,2H),7.36-7.43(m,2H),7.50(dd,J=1.8,8.4Hz,1H),7.56(d,J=1.8Hz,1H),7.59-7.66(m,2H)	•
	m.p.169-170°C	
1.500	1HNMR(DMSO-d6) δ 2.32(s,3H),3.37(s,3H),3.45(s,3H),5.23(s,2H),7.23(d.]≡7.8H₂.9H),7.37.7.44(9u), 7.47.5.23(s,3H),	
000-1	6-7.66(m,4H),7.75(d,J=7.5Hz,2H)	
	IR(KBr)1525,1485,1366,1355,1291,1262,1181,1150,1116,969,869,811cm=1	
	m.p.123-124°C	
1.600	1HNMR(CDCl ₃) § 1.68(s,3H),1.75(d,J=0.9Hz,3H),2.53(dt,J=7.2,6.9Hz.2H) 4.07(t,J=6.9Hz,2H) 4.00(t,J=6.9Hz,1H) 5.00(t,J=7.2,6.9Hz,2H)	
	,1H),6.89-6.95(m,2H),7.07(m,1H),7.14-7.22(m,4H),7.44-7.51(m,2H)	
	IR(KBr)3448,1612,1593,1530,1489,1475,1401,1262,1212,1160,1132-820,7761	
	1103,113Z,033,1/9cm	

Table 120

	m.p.184.185°C
1-601	1HNMR(DMSO-dc) & 2.31(s,3H),5.13(s,2H),6.85-6.91(m,2H),6.97(m,1H) 7.07(d,1=8.4Hz,1H) 7.052 1.11 1.12 1.11
	8.1Hz,2H),7.32-7.48(m,6H) 8.1Hz,2H),7.20(d,J=1.8Hz,1Hz,1H),7.20(d,J=1.8Hz,1Hz,1Hz,1Hz,1H),7.20(d,J=1.8Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1
	IR(KBr)3290, 1614, 1529, 1491, 1459, 1449, 1405, 1380, 1267, 1254, 1167, 1139, 763, -1
•	m.p.141-142°C
1.609	1HNMR(CDCl3) & 1.77(s,3H),1.82(s,3H),3.46(s,3H),3.78(s,3H),4.56/d,1=6.8Hz,9UN, E. 54/2, 1.0.011
	1(dd,J=5.2,8.6Hz,2H),9.88(s,1H)
	IR(KBr)3433,2955,2922,2865,2833,1687,1604,1515,1469,1988,1958,1939,1180,1180,1180,1180,1180,1180,1180,118
	m.p.169-170°C
I-603	1HNMR(CDCl3) & 2.38(s,3H),3.46(s,3H),3.77(s,3H) 5.07(s,9H) 7.03 7.29(m, 71), 7.03 7.20(m, 71)
	IR(KBr)3433,2936,2840,1698,1517,1462,1251,1233,1067,000,827,1
	m.p.120-121°C
1.604	1HNMR(CDCl3) & 1.68(s,3H),1.74(s,3H),2.50-2.57(m,2H),3.46(s,3H),3.77(s,3H),9.00(s,1-7.01), 210, 210, 210, 210, 210, 210, 210, 210
· ·	4-7.26(m,7H),7.61(dd,J=5.4,8.8Hz,2H),9.88(brs,1H)
	IR(KBr)3435,2960,2937,2876,1698,1605,1516,1464,1441,1379,1996,1979,1992,1991,1161,1021,1021,1021,1021
	m.p.151-152°C
1-605	¹ HNMR(DMSO-d ₆) δ 1.34(s,6H),3.07-3.15(m,1H),3.32(s.3H),3.67(s.3H),3.92 ⁻⁷ , 113, 202, 113, 203, 203, 203, 203, 203, 203, 203, 20
	J=7.8Hz,2H),7.22-7.35(m,4H),7.66(dd,J=3.2,6.0Hz,2H),8.72(brs.1H)
	IR(KBr)3460,2960,2935,1607,1521,1488,1456,1392.1244.1226.1160.1199.1072.8181
	m.p.164-165°C
1.606	1HNMR(DMSO-dc) & 2.32(s,3H),3.31(s,3H),3.66(s,3H),5.08(s,2H) 6.46(s,1H) 6.00(4.1-5.011,011,011,011,011,011,011,011,011,011
,	=3.6,6.2Hz,2H),8.69(brs,1H)
	IR(KBr)3367,2940,1605,1519,1484,1466,1449,1390,1229,1181,1158,1050,1006,097,872,872
	", m3/181/600,1000,1000,1000,1001,1000,

Table 121

	m.p.103-104°C
1.607	"HNMR(DMSO-ds) & 1.37(s,6H),2.47-2.59(m,2H),3.31(s,3H),3.66(s,3H),3.94-4.05(m,1H),4.26-4.34(m,1H) & 44(s,1H) 7.0964
•	J=7.6Hz,2H),7.18-7.35(m,4H),7.64(dd,J=3.4,6.6Hz,2H),8.77(brs,1H)
	IR(KBr)3400,2993,2961,2930,1607,1522,1486,1471,1454,1393,1226,1193,1079,835,8101
	m.p.157-158°C
1.608	"HNMR(DMSO-d6) & 1.73(s,3H),1.77(s,3H),3.31(s,3H),3.72(s,3H),4.54(d,J=6.9Hz.2H),5.47(t,J=7.9Hz,1H),6.0374,1-8.7Hz,8
3	H), 7.05(s, 1H), 7.19(d, J=9.0Hz, 2H), 7.30-7.36(m, 2H), 7.70(dd, J=5.4, 8.7Hz, 2H)
	IR(KBr)3406,2936,1712,1608,1519,1472,1444,1375,1235,839cm ⁻¹
	m.p.215-216°C
1.609	1HNMR(DMSO-d6) § 2.34(s,3H),3.33(s,3H),3.74(s,3H),5.09(s,2H),7.00-7.07(m,3H),7.22-7.39(m,8H),7.73-44.1-5.6.8 our.
	() () () () () () () () () ()
	IR(KBr)3494,3289,2938,1745,1698,1520,1471,1461,1378,1296,1939,1159,896,1
1.610	1HNMR(DMSO.d6) 0 1.64(s,3H),1.71(s,3H),2.41-2.46(m,2H),3.32(s,3H),3.97(t.1=6.6Hz,9H),5.90/+ 1-7.91/- 11/-
2	$6.93(d, J=8.1 Hz, 2H), 7.05(s, 1H), 7.20(d, J=7.2 Hz, 2H), 7.30-7$ $36(m$ $2H), 7$ $70(d, J=4$ ϵ 7 ϵ $1z$ z z z z z z z z z
	IR(KBr)3424,2933,1701,1609,1519,1471,1379,1294,1248,1061,839cm-1
1.611	1HNMR(CDCl ₃) § 1.75(s, 3H), 1.82(s, 3H), 2.35(s, 6H), 2.45(s, 3H), 3.21(s, 3H), 3.56(s, 3H), 3.56(s, 3H), 4.35(s, 1-c, on, on), c. co., v.
	=7.2Hz,1H),6.84(s,1H),7.08(s,2H),7.38(d,J=8.7Hz,2H),7.70(d,J=9.0Hz,2H)
	IR(KBr)3433,2932,1509,1475,1376,1359,1232,1177,1152,1085,966,874,707,1
	1, 100, 100, 100, 100, 100, 100, 100, 1

Table 122

1	m.p.175-176°C	
1.619	1HNMR(CDCl ₃) § 2.35(s,6H),2.39(s,3H),2.49(s,3H),3.21(s,3H),3.56(s,3h),3.79(s,3H),4.83(s,9H),6.84(s,1H),7.10/2.9H),7.10/2.9H	
	,J=7.5Hz,2H),7.38(d,J=8.4Hz,4H),7.70(d,J=9.0Hz,2H)	
	IR(KBr)3434,2936,1510,1475,1363,1229,1176,1152,1083,964,871,803cm-1	
1.613	14NMR(CDCl ₃) δ 1.69(s,3H),1.75(s,3H),2.33(s,6H),2.52-2.55(m,2H),3.21(s,3H),3.56(s,3H),3.78(s,3H),3.78(s,3H),3.78(s,3H)	
2 i	27(t,J=6.6Hz,1H),6.83(s,3H),7.08(s,6H),7.38(d,J=8.7Hz,2H),7.70(d,J=9.0Hz,2H)	
	IR(KBr)3432,2939,1509,1476,1448,1362,1237,1172,1155,1103,1081.963.873.800cm-1	
	m.p.89-90°C	
1,614	1HNMR(DMSO-d ₆) \$ 1.74(s, 3H), 1.77(s, 3h), 3.36(s, 3H), 3.67(s, 3H), 4.22(d, 1≡3 0H2 9H) 4.56(d, 1−6 9H2 9H) 6.64 1−6 9H2 9H3	
#10.T	H),6.93-6.96(m,3H),7.11(d,J=8.7Hz,2H),7.28-7.34(m.2H),7.68(dd,J=6.08,7Hz,9H)	
	IR(KBr)3528,3418,2935,1608,1518,1472,1233,1004,836cm ⁻¹	
	m.p.89.90°C	
L.615	1HNMR(DMSO-d6) & 2.33(s,3H),3.36(s,3H),3.67(s,3H),4.22(d,J=3.9Hz,2H) 4 59(t, J=4.9Hz,1H) & 00(z,9H) & 010 2.000	•
0101	,J=8.4Hz,2H),7.22(d,J=8.4Hz,4H),7.28-7.39(m,4H),7.68(dd,J=5.7.8.4Hz,9H)	
	IR(KBr)3485,2931,1517,1473,1460,1383,1243,1225,1079,1014,1001,834,7081	
	0.11	
1.616	1HNMR(DMSO-d6) & 1.75(s, 3H), 1.78(s, 3H), 2.47-2.52(m, 2H), 3.39(s, 3H), 3.71(s, 3H), 4.25/d, 1=3.3H, 9H), 4.40/d, 1-6.2H, 6H;	•
	5.46(t,J=5.7Hz,1H),6.91-6.95(m,3H),7.13(d,J=8.4Hz,2H),7.24-7.32(m,2H),7.67(dd,1=5.78.4Hz,9H)	•
	IR(KBr)3528,3419,2935,1608,1518,1472,1383,1232,1004,837cm-1	

Table 123

	m.p.138-139°C
1,617	¹ HNMR(DMSO-d ₆) δ 1.70(s,3H),1.77(s,3H),2.24(s,6H),3.30(s,3H),3.64(s,3H),4.31(d,J=6.9Hz 2H) 5 56(t, J=6.6Hz 1H) 6 39(s, 3H)
110-1	1H), 6.84(d, J=8.4Hz, 2H), 7.44(d, J=8.4Hz, 2H), 8.50(s, 1H), 9.50(s, 1H)
	IR(KBr)3400,2966,2934,1609,1519,1465,1444,1389,1362,1269,1228,1211,1194,1171,1118,1080,1037,0521
	m.p.122-123°C
1.619	1HNMR(DMSO-d6) & 2.29(s,6H),2.37(s,3H),3.30(s,3H),3.67(s,3H),4.81(s,2H),6.43(s,1H) & 86/d,1=7.5H,2H) & 97/c,2H,7.97
010-1	(d,J=6.9Hz,2H),7.42-7.48(m,2H),8.54(s,1H),9.52(s,1H)
	IR(KBr)3483,3423,2931,1735,1709,1612,1520,1477,1454,1411,1395,1369,1994,1176,1117,1080,1038
	m.p.81-82°C
1.619	1HNMR(DMSO-dc) & 1.70(s,3H),1.76(s,3H),2.18-2.30(m,2H),2.27(s,6H),3.34(s,3H),3.68(s,3H),3.80(t,1=4.5H2.2H) 5.34(t,1=
	5.1Hz,1H),6.43(s,1H),6.88(d,J=7.5Hz,2H),6.94(s,6H),7.46-7.50(m,2H),8.53(s,1H),9.54(s,1H)
	$IR(KBr)3410,2930,1612,1521,1479,1454,1395,1361,1265,1227,1174,1117.1090,1028.825cm^{-1}$
	m.p.161-162°C
1.690	14NMR(CDCl ₃) § 1.32(s,9H),2.38(s,3H),3.10(s,3H),3.20(s,3H),3.39(s,3H),3.74(s,3H) § 12(s,2H) § 96(s,1H) § 79(c,1H) 7,000
070-1	d,J=8.4Hz,1H),7.21(d,J=7.8Hz,2H),7.28(dd,J=8.4,1.8Hz,1H),7.33-7.38(m,5H),7.67(4,1=8.4Hz,9H)
	$1R(KBr)3398, 1718, 1518, 1472, 1366, 1173, 1151, 877, 867, 813cm^{-1}$
	1
	¹ HNMR(CDCl ₃) § 1.33(s,9H), 1.68(s,3H), 1.74(s,3H), 2.54(q,J=6.9Hz,2H), 3.19(s,3H), 3.20(s,3H), 3.39(s,3H), 3.73(s,2H), 4.05(s,1H)
I-621	=6.9Hz,2H),5.21(t,J=6.9Hz,1H),5.95(s,1H),6.79(s,1H),7.02(d,J=8.4Hz,1H),7.89dd .1=8 4 1 9Hz,1 1 93e,7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	6(d,J=8.7Hz,2H),7.66(d,J=8.7Hz,2H)
	IR(KBr)3416,1720,1519,1469,1365,1237,1152,1117,975,872,815cm-1

Table 124

	m.p.197-199°C
1.622	¹ HINMR(DMSO-d ₆) & 2.33(s,3H),3.31(s,6H),3.43(s,3H),3.64(s,3H),3.74(s,3H),4.47(s,2H),5.19(s,2H),6.28(s,1H),7.21.7.25(m,4
	II), I. 35(d, J=8.7Hz, JH), 7.40-7.44(m, 4H), 7.70(d, J=9.0Hz, 2H) IR(KBr)3482, 3385, 1597, 1519, 1484, 1368, 1353, 1150, 872, 813cm ⁻¹
	m.p.99·101°C
	1HNMR(DMSO-d6) & 2.32(s,3H),3.27(s,3H),3.59(s,3H),4.21(s,2H),5.08(s,2H),6.17(s,1H),6.58(dd,1=8.0.1.8H; 1H),6.69(d,1=1.1)
I-623	8Hz,1H),6.82(d,J=8.7Hz,2H),7.01(d,J=8.0Hz,1H),7.21(d,J=7.8Hz,2H),7.39(d,J=7.8Hz,2H),7.41(d,J=8.7Hz,2H),9.09(d,J=8.7Hz,2H),7.01(d,J=8.0Hz,1H),7.01(d,J=7.8Hz,2H),7.39(d,J=7.8Hz,2H),7.31(d,J=7.8Hz,2Hz,2H),7.31(d,J=7.8Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2Hz,2
),9.45(brs, 1H)
	IR(KBr)3390, 1609, 1592, 1521, 1484, 1246, 1227, 1117, 1011, 810cm ⁻¹
	m.p.215-217℃
1.694	1HNMR(CDCl3+CD3OD)d3.78(s,3H),3.79(s,3H),5.49(s,2H),6.64(dd,J=0.6.2.7Hz,1H),6.79(d.J-8.1Hz,1H),6.79(d.J-8.1Hz,1H)
170-1	H), 6.96(s, 1H), 7.02(s, 1H), 7.19-7.32(m, 3H), 7.40-7.50(m, 3H), 7.56-7.60(m, 1H), 7.85(4, 1=0.9H2, 1H), 8.89 8.50(m, 1H)
	IR(KBr)3600-2600(br), 1611, 1599, 1500, 1477, 1445, 1395, 1264, 1238, 1210, 1059, 1008, 10
	m.p.213-214°C
1.625	1HNMR(CDCl ₃) & 2.36(s,3H),3.77(s,6H),6.70(dd,J=0.6,3.6Hz,1H),6.93(s,1H),6.96(s,1H) 7 (08-7 16/m,9H) 7 24 7 28/m, 2H)
	51-7.60(m,4H),7.73(d,J=1.5Hz,1H),7.80-7.84(m,2H),8.03(d,J=9.0Hz,1H)
	IR(KBr)3600-2800(br), 1597, 1517, 1496, 1464, 1444, 1372, 1209, 1189, 1172, 1181, 1092, 1050, 1089, 1089, 1089
	1HNMR(CDCl ₃ +CD ₃ OD) δ 3.13(s,3H),3.81(s,3H),5.19(s,2H),6.97(s,1H),6.99(s,1H),7.14(d,1=8.7H ² ,1H),7.34.7.59
1-626	m,6H),7.61(d,J=2.1Hz,1H),7.73(d,J=8.4Hz,2H),8.12(d,J=8.4Hz,2H)
	$IR(KBr)3432,1616,1520,1494,1452,1388,1352,1282,1261,1211,1186,1175,1113,1058,1033cm^{-1}$
	1HNMR(CDCl ₃) & 3.81(s,6H), 5.17(s,2H), 6.99(s,1H), 7.00(d,J=8.4Hz,1H), 7.09(dd,J=8.4&1.8H ² ,1H), 7.93(d,1=1.9H ² ,1H)
I-627	7.33-7.50 (m, 5H), 7.76(.d,J=8.4Hz,2H), 8.10(d,J=8.4Hz,2H)
	IR(KBr)3551,3520,3399,1615,1587,1576,1521,1488,1455,1383,1968,1945,1968,1196,1196,1667,1667,1668,1196,1196,1196
	1.000,1120,1005,1003cm ⁻¹

	1HNMR(CDCl3) δ 3.05(s,3H),3.47(s,3H),3.75(s,3H),5.15(s,2H) 6.45(s,1H) 6.04(d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,d,
I-628	6(d, J=1.8Hz, 1H), 7.30(d, J=8.1Hz, 2H), 7.36-751(m, 5H), 7.64-1-64-1-64-1-64-1-64-1-64-1-64-1-64-1
	IR(KBr)3525,3472,1609,1588,1522,1487,1455,1407,1291,1966,1526,1526,1626,1626,1626,1626,1626,16
	1HNMR(CDCl ₃) & 2.68(s.3H) 3.07(s.3H) 3.14(s.2H) 3.14(
1.629	50(m,9H),7.62(d,J=9.0Hz,2H)
	IR(KBr)3432,1611,1522,1482,1462,1392,1358,1295,1233,1178,1154,1116,1556,1533
,	
I-630	7.43 (d.d, J=8.4&2.1Hz, 1H), 7.54-7.65(m,4H)
	IR(KBr)3432,1612,1519,1481,1367,1332,1232,1154,1057,1011,1011,1011,1011,1011,1011,1011
I-631	5.19(s,2H), 5.21-5.32 (m,1H), 6.86(s,1H),7.15(.d,J=8.7Hz,1H),7.30.7 59(m,0H),7.22,3.1-6.31, 4.31(d,J=7.2Hz,2H),
	IR(KBr)1609,1520,1481,1365,1338,1294,1270,1233,1178,1119,1033,533,533,533
	14NMR(CDCl ₃) & 1.45(s,3H), 1.59(s,3H), 1.66(s,3H), 200, 201, 201, 201, 201, 201, 201, 201
I-632	2H), 4.32(d, J=8.4Hz, 2H), 5.18(s, 2H), 5.23(t, J=8.4Hz, 1H)), 5.90(t, J=8.4Hz, 1H), 5.9
	7.58(d,J=8.4Hz,2H)
	"HNMR(CDCl ₃) & 1.58(s,3H),1.69(s,3H),2.97(s,3H) 3.45(s,3H) 3.75(,2H) 4.75(,2H)
1.633	5.69 (s, 1H),5.87(s,1H),6.47(s,1H),6.95(d.d.; l=8.4%? 1Hz, 1H),7.03(z,1Hz,2H),5.16(s,2H),5.24-5.33(m,1H),
000-1	7.65 (d, J=8.4Hz, 2H)
	IR(KBr)3450,1609,1559,1558,1524,1487,1448,1421,1320,1933,1143,1117,1021,103
	1HNMR(CDCl ₃) & 1.57(s, 3H), 1.68(s, 3H), 2.66(s, 3H), 2.70(s, 3H), 3.13(s, 3H), 2.54(s, 3H), 2.70(s, 3H), 2
I-634	2H), $5.26(t, J=8.4Hz)$, $6.86(s, 1H)$, $7.15(d, J=8.7Hz, 1H)$, $7.30.7.49(m$ 9H) $7.6374 = 6.4Hz$, $6.85(s, 2H)$, $6.85(s, 2$
	IR(KBr)1615,1517,1480,1372,1337,1233,1213,1178,1154,1076,1014,2-1
	1010,1014cm

	1HNMR(CDCl3) & 1.58(s,3H), 1.69(s,3H), 2.82(s,3H), 2.97(s,3H), 3.29(s,3H), 3.53(s,3H), 3.77(s,3H), 4.33(d,1=7.9H; 9H), 5.97(+.11)
1-635	=7.2Hz,1H),6.25(s,1H),6.86(s,1H),7.17(d,J=9.0Hz,1H)),7.23-7.32(m,2H),7.41(d,J=8.7Hz,2H),7.63(d,J=8.7Hz,9H)
	IR(KBr)3431,1611,1522,1482,1364,1337,1294,1231,1178,1153,1077,1014cm ⁻¹
	1HNMR(CDCl ₃) & 1.76(s,3H), 1.82(s,3H), 3.09(s,3H), 3.47(s,3H), 3.75(s,3H), 4.62(d,J=6.9Hz,2H), 5.47.5.58(m,1H), 6.71(2,1H)
1-636	5.87 (s, 1H), 6.45(s,1H), 6.60(s,1H), 6.89-7.01(m,2H), 7.05(d, J=0.6Hz,1H), 7.30(d, J=8.7Hz,2H), 7.65(d, J=8.7Hz,2H)
	IR(KBr)3448,3265,1612,1585,1521,1487,1330,1287,1243,1225,1152,1119,1069,971,
	1HNM2R(CDCl ₃) & 1.57(s, 3H), 1.69(s, 3H), 1.77(s, 3H), 1.81(s, 3H), 2.97(s, 3H), 3.94(s, 3H), 3.54(s, 3H), 3.78(c, 3H), 3.00(c, 3H),
1.637	d,J=6.9Hz,2H),4.64(d,J=6.6Hz,2H),5.27(t,J=6.9Hz,1H),5.49(t,J=6.6Hz,1H),6.86(s,1H) 7.09(d,J=8.4Hz,1H) 7.09(d,J=8.4Hz,1H)
	,7.63(d,J=8.4Hz,2H)
	IR(KBr)1609,1520,1481,1365,1339,1292,1270,1236,1178,1153.1118.1078.1015cm-1
	¹ HNMR(CDCl ₃) δ 1.58(s,3H), 1.69(s,3H), 1.76(s,3H), 1.82(s,3H), 2.97(s,3H), 3.45(s,3H), 3.45(s,3H), 4.32(d, 1=7 gHz, 9Hz)
1.638	4.63(.d,J=7.8Hz,2H),5.23-5.33(m,1H),5.48-5.57(m,1H),5.69(s,1H),5.85(s,1H),6.46(s,1H) 6.46(s,1H) 6.46(s,1H)
	1H), 7.40 (d, J= 8.7Hz, 2H), 7.65(d,J=8.7Hz,2H)
	IR(KBr)3450,1609,1588,1557,1525,1487,1445,1327,1248.1148.1114.1072.1015cm.1
	1HNMR(CDCl ₃) δ 2.55(s,3H), 2.67(s,3H), 3.58(s,3H), 3.79(s,3H), 5.18(s,2H), 6.71(s,1H), 6.85(s,1H), 6.91 (d.d. 1-9.48)
I-639	2.1Hz, 1H), 7.03(d,J=8.4Hz,1H), 7.04(d,J=2.1Hz,1H), 7.32-7.48 (m. 6H), 7.85(d.d.1=7.88) 58,1 5Hz, 1H), 9.96(d.J=1.11), 1.11
	$IR(KBr)3457,1739,1529,1481,1407,1376,1346,1279,1243,1177,1128,1071,1019cm^{-1}$
	1HNMR(CDCl ₃) 6 2.67(s,3H),2.68(s,3H),3.13(s,3H),3.58(s,3H),3.80(e,3H),5.19(s,2H),6.86(s,1H),7.15(d,1=8.7H ² ,1H),7.31
1.640	7.49 (m, 8H), 7.83 (d.d,J=8.1&1.8Hz,1H),8.21(d,J=1.8Hz,1H)
	IR(KBr)3433,1609,1530,1481,1372.1290,1268 1238 1177 1118 1075 10191
	10101010101010101010101010101010101010

	"HNMR(CDCI.) & 2.67(s,3H), 3.50(s,3H), 3.77(s,3H), 5.16(s,2H), 5.70(s,1H), 5.83(s,1H), 6.47(s,1H), 6.04 (3.3.1,1.5.2)
I-641	&1.8Hz,1H), 7.04 (d., J=8.7Hz,1H), 7.07(d.,J=1.8Hz,1H), 7.34.7.48(m, 5H), 7.96.4.3.1.1-9.19.1011, 0.34. (d.d., J=8.7)
	1R(KBr)3555,3377,1590,1529,1503.1451,1414,1341,1394,1949,1995,1191,,1914,1341,1394,1494,1949,1995,1191,,1914,1341,1394,1949,1995,1191,,1914,1341,1394,1949,1995,1191,,1914,1341,1394,1949,1995,1191,,1914,1341,1394,1949,1995,1191,,1914,1341,1394,1949,1995,1191,,1914,1341,1394,1949,1995,1191,,1914,1341,1394,1949,1995,1191,,1914,1341,1394,1949,1995,1991,,1914,1914,1914,1914,1949,1995,1991,,1914,1914,1914,1914,1914,1914,
	1HNMR(CDCl ₃) & 2.29(s,3H),2.68(s,3H),3.12(s,3H),3.56(s,3H),3.76(s,3H),5.76(s,3H),5.76(s,3H)
1-642	m,7H)
	IR(KBr)3407,1624,1518,1480,1361,1287,1270,1234,1175,1117,1084,1000,1
	1HNMR(CDCl ₃) & 2.40(s,3H),2.67(s,3H),3.09(s,3H),3.13(s,3H),3.59(s,3H),3.78(s,3H),2.78(
1-643	d,J=8.4Hz,1H),7.30-7.49(m,9H),7.69(d,J=1.8Hz.1H)
	IR(KBr)3433,3304,1608,1519,1481,1365,1326,1294,1269,1237,1177,1156,1114,1678,1617
	¹ HNMR(CDCl ₃) δ 2.09(s, 3H), 2.39(s, 3H), 2.68(s, 3H), 3.49(s, 3H), 3.49(s, 3H), 3.76(s, 9H), ξ.10(s, 9H)
1.644	7.24(m,3H),7.31-7.49(m,9H),7.54(d,J=1.8Hz,1H),7.67(d,J=8.4Hz,2H)
	IR(KBr)3434,1608,1519,1481,1366,1293,1269,1237,1164,1114,1016,1
	¹ HNMR(CDCl ₃) δ 2.09(s,3H), 2.39(s,3H), 3.43(s,3H), 3.73(s,3H), 5.16(s,2H), 5.30(s,1H), 6.69(s,1H), 7.60(s,1H)
1-645	6.36 (s, 1H), 6.95 (d. d, J=8.7 & 2.1 Hz, 1 H), 7.03 (d, J=8.7 Hz, 1 H), 7.08 (d. J=2.1 Hz, 1 H), 7.03 (d, J=8.7 Hz, 1 H), 7.08 (d. J=8.7 Hz, 1
	J=1.5Hz,1H), 7.68 (d,J=8.4Hz,2H)
	IR(KBr)3465,3270,1612,1587,1558,1519,1487,1454,1384,1944,1160,1193,1105,105,105,105
	1HNMR(CDCl ₃) δ 2.48(s, 3H), 2.63(s, 3H), 3.02(s, 3H), 3.13(s, 3H), 3.28(s, 9H), 3.54(s, 9H), 3.78(s, 9H), 3
I-646	d,J=8.4Hz,1H),7.30-7.49(m,9H),7.59(s,1H)
	IR(KBr)3433,1606,1519,1481,1364,1341,1292,1272,1233,1178,1148,1118,1082,1
	1HNMR(CDCl ₃) & 2.48(s,3H), 3.02(s,3H), 3.28(s,3H), 3.46(s,3H), 3.75(s,3H), 5.16(s,9H), 5.70(2,1H), 7.00(2,1H)
I-647	6.94 (d.d, J=8.4&2.1Hz,1H), 7.03(.d,J=8.4Hz,1H), 7.07(d,J=2.1Hz,1H), 7.33.7 53(m, 7H), 6.47(8,1H), 6.47(8,1H),
	IR(KBr)3528,3429,1609,1584,1558,1517,1487,1454,1331,1331,1331,135,135,135,135,135,135,
	, 110, 100, 110, 110, 110, 110, 110, 11

	1HNMR(CDCl ₃) § 1.55(s, 3H), 2.45(s, 3H), 2.79(s, 3H), 3.02(s, 3H), 3.29(s, 3H), 3.52(s, 3H), 3.77(s, 3H), 4.12.4.31(m, 2H), 5.99.5.31(
I-648	m,1H),6.30(s,11H),6.84(s,1H),7.17(d,J=8.7Hz,1H),7.25-7.32(m,2H),7.39(d,J=8.4Hz,1H),7.45(d,d,J=8.4&1.8Hz,1H),7.53(d,J=8.4Hz,1H),7.45(d,d,J=8.4&1.8Hz,1H),7.53(d,J=8.4Hz,1H),7.45(d,d,J=8.4&1.8Hz,1H),7.53(d,J=8.4Hz,1H),7.45(d,d,J=8.4&1.8Hz,1H),7.53(d,J=8.4Hz,1Hz,1H),7.53(d,J=8.4Hz,1Hz,1H),7.53(d,J=8.4Hz,1Hz,1H),7.53(d,J=8.4Hz,1Hz,1H),7.53(d,J=8.4Hz,1Hz,1H),7.53(d,J=8.4Hz,1Hz,1H),7.53(d,J=8.4Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1Hz,1
	IR(KBr)3431,1609,1522,1481,1365,1334,1294,1235,1178,1150,1077,10131
	¹ HNMR(CDCl ₃) δ 1.54(s,3H), 1.68(s,3H), 1.76(s,3H), 1.81(s,3H), 2.45(s,3H), 2.68(s,3H), 3.09(s,3H), 3.94(s,3H), 9.59(s,3H), 9.59(s,3H)
1.649	,3H),4.10.4.34(m,2H),4.64(d,J=7.2Hz,2H),5.21.5.30(m,1H),5.45-5.53(m,1H),6.84(s,1H),7.08(d,1=8.4Hz,1H),1H,7.08(s,1H),6.84(s,1H),7.08(d,1=8.4Hz,1H),7.08(d,1H),7.08(s,1
2 2),7.53(d,J=1.5Hz,1H)
	IR(KBr)3432,1606,1518,1481,1362,1340,1292,1276,1236,1177,1153,1116,1076,10101
	¹ HNMR(CDCl ₃) § 1.56(s,3H), 1.68(s,3H), 1.76(s,3H), 1.82(s,3H), 2.44(s,3H), 3.02(s,3H), 3.45(s,3H), 3.75(s,3H), 4.10, 4.39/m, 9H)
	4.62 (d,J=7.2Hz,2H),5.22-5.32(m,1H),5.48-5.57(m,1H),5.60-5.80(broad 1H) 5.89(s.1H) 6.46(s.1H) 6.46(s.1H)
I-650	&1.8Hz,1H), 6.97(d, J=8.1Hz, 1H), 7.04(d,J=1.8Hz,1H), 7.38(d,J=8.1Hz,1H), 7.47(d,J=1.6.15), 111, 7.04(d,J=1.8Hz,1H), 7.38(d,J=8.1Hz,1H), 7.47(d,J=1.6.15), 111, 7.41(d,J=1.8Hz,1H), 7.41(d
	J=1.8Hz,1H)
	IR(KBr)3433,1610,1586,1557,1518,1486,1336,1240,1149,1110,1069cm.1
	1HNMR(CD ₃ OD) & 3.33(s, 3H), 3.66(s, 3H), 5.18(s, 2H), 6.42(s, 1H), 1H), 6.75(dd. J=8,4&2,1H2,1H), 6.87(d, 1-2,1H2,1H), 6.65(s, 1H2, 1H2, 1H3, 1H3, 1H3, 1H3, 1H3, 1H3, 1H3, 1H3
I-651	=8.4Hz,1H),7.26-7.58(m,8H),7.81(d.d,J=7.8&1.2Hz,1H)
	IR(KBr)3446,1698,1586,1517,1498,1481,1454,1408,1287,1247,1117,1069,1010cm-1
I-652	=6.6Hz,1H),6.78(s,1H),7.08(d,J=8.7Hz,1H),7.33-7.51(m,4H),7.56-7.63(m,1H),7.96(d.d.J=7.5&1.9Hz,1H)
	$IR(KBr)1725,1609,1520,1480,1400,1366,1295,1260,1178,1119,1073,1010cm^{-1}$
	1HNMR(CDCl ₃) § 2.38(8,3H),2.72(8,3H),3.12(8,3H),3.43(8,3H),3.73(8,3H),3.76(8,3H),5.14(8,2H) 6.79(8,1H) 7.13.7.94/9H)
I-653	7.30-7.38(m,3H),7.41-7.51(m,3H),7.56-7.63(m,1H),795(d,d,J=7.5&1.2Hz,1H)
	IR(KBr)1725,1610,1520,1481,1401,1370,1293,1262,1179,1119,1076,1011cm-1
	TOTAL CONTROL OF THE

	1HNMR(CDCl ₃) & 1.75(s,3H),1.81(s,3H),3.56(s,3H),3.72(s,3H) 4 60(d,1=6 6Hz, 9H) 5,90(z,1H) 5,45 5,50(z,1H)
I-654	oad,1H),6.42(s,1H),6.94(s,2H),7.05(s,1H),7.43-7.52(m,2H),7.56-7.65(m,1H),7.99(.d,J=8.7Hz,1H) IR(KBr)3433,1697,1585,1517,1481,1454,1410,1987,1944,1117,1068,1
1-655	1HNMR(CDCl ₃) δ 2.39(s,3H),3.37(s,3H),3.72(s,3H),5.10(s,2H),6.41(s,1H),6.94(dd,J=8.1&2.1Hz,1H),7.02(d,J=8.1Hz,1H),7.0 6(d,J=2.1Hz,1H),7.23(d,J=7.8Hz,2H),7.35(.d,J=7.8Hz,2H),7.42-7.63(m,3H),7.96(d,J=7.8Hz,1H) 1R(KBr)3538.3443.1685.1518.1458.1413.1959.1112.1959.1112.1959.1113.1959.113.1959.113.1959.113.19599.113.1959.113.1959.113.1959.113.1959.113.1959.113.1959.113.1
1-656	m.p.110-112°C 'HNMR(CDCl ₃) & 1.69(s, 3H), 1.74(s, 3H), 2.55(q, J=7.1Hz, 2H), 3.20(s, 3H), 3.21(s, 3H), 3.39(s, 3H), 3.70(s, 3H), 4.07(t, J=7.1Hz, 2H)
	[z, 1H), 6.28(s, 1] IR(KBr)3477,3
	m.p.139.162 C 'HNMR(DMSO-ds) δ 1.64(s,3H),1.71(s,3H),2.45(q,J=6.7Hz,2H),3.27(s,3H),3.59(s.3H),3.96(t.J=6.7Hz,2H) 4.99(s.9H) ε.9ε(ε
1-657	J=6.7Hz,1H),6.17(s,1H),6.60(dd,J=8.1,2.0Hz,1H),6.67(d,J=2.0Hz,1H),6.83(d,J=8.7Hz,2H),6.95(d,J=8.1Hz,1H),7.42(d,J=8.7Hz,2H),8.90(c,J=8.7Hz,2H),9.90
	IR(KBr)3447,3401,3361,1611,1522,1486.1260,1228,1122,1001,81461
	m.p.146-147°C
1.658	1HNMR(CDCl3) & 1.14(t,J=7.2Hz,3H),1.76(d,J=0.9Hz,3H),1.81(d,J=0.3Hz,3H),2.70(8.3H) 3.20(8.3H) 3.93(8.3H) 3.93(8.3H)
)	2Hz,2H),3.78(s,3H),4.64(d,J=6.6Hz,2H),5.49(m,1H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.31.7.41(m,4H),7.66.7.74(m,2H)
	$_{1R(CHCl_3)2930,1608,1517,1479,1369,1148,1116,1082,969,872cm^{-1}}$ m.p.174-175 $^{\circ}$ C
1.659	1HNMR(CDCl3) § 1.14(t,J=6.9Hz,3H),2.37(s,3H),2.65(s,3H),3.12(s,3H),3.20(s,3H),3.72(c,1=6.9Hz,9H),9.77(z,9H),5.71(z,9H)
8),6.84(s,1H),7.15(d,J=8.4Hz,1H),7.18-7.42(m,6H),7.66-7.73(m,2H)
	11x(CriCi3)1517,1479,1369,1268,1148,1117,1082,969,872cm ⁻¹

Table 130

	m.p.147.5-148°C
	1HNMR(CDCl ₃) δ 1.14(t, J=7.2Hz, 3H), 1.68(s, 3H), 1.74(d, J=0.9Hz, 3H), 2.50-2.59(m, 2H), 2.72(s, 3H), 3.20(s, 3H), 3.22(s, 3H), 3.7
099-1	2(q,J=7.2Hz,2H),3.77(s,3H),4.07(d,J=6.9Hz,2H),5.21(m,1H),6.84(s,1H),7.07(d,J=8.7Hz,1H),7.31-7.42(m,4H),7.66-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-7.74(m,2H),1.06-1.04(m,2H),1.06(
	(H
	IR(CHCl ₃)2930,1607,1517,1480,1369,1148,1118,1082,1025,969,872cm ⁻¹
	m.p.154-157°C
1.661	¹ HNMR(CDCl ₃) δ 1.15(t,J=7.2Hz,3H),1.76(s,3H),1.82(s,3H),3.60(q,J=7.2Hz,2H),3.75(s,3H),4.61(d,J=6.9Hz,2H),4.93(s,1H),
100-1	5.53 (m,1H), 5.69 (s,1H), 5.96 (s,1H), 6.45 (s,1H), 6.80 - 6.98 (m,4H), 7.07 (m,1H), 7.51 - 7.58 (m,2H)
	$IR(CHCl_3)3592,3528,2976,2934,1611,1521,1488,1460,1384,1286,1243,1169,1112,1068,994,885,824cm^{-1}$
	m.p.130.5-133°C
	¹ HNMR(CDCl ₃) & 1.15(t,J=7.2Hz,3H),2.39(s,3H),3.59(q,J=7.2Hz,2H),3.74(s,3H),4.83(s,1H),5.10(s,2H),5.66(s,1H),5.97(s,1H
1.662), 6.44(s, 1H), 6.87-6.94(m, 2H), 6.96(dd, J=1.8, 8.4Hz, 1H), 7.02(d, J=8.4Hz, 1H), 7.09(d, J=1.8Hz, 1H), 7.19-7.26(m, 2H), 7.30-7.38(d, J=1.8Hz, 1H), 7.19-7.26(m, J=1.8Hz, 1H), 7.1
	m,2H),7.51-7.58(m,2H)
	$IR(CHCl_3)3524,1612,1521,1488,1460,1383,1286,1246,1113,1069,1027,907,873cm^{-1}$
	amorphous powder
	¹ HNMR(CDCl ₃) δ 1.15(t,J=7.2Hz,3H), 1.68(d,J=0.6Hz,3H), 1.74(d,J=0.9Hz,3H), 2.48-2.56(m,2H), 3.60(q,J=7.2Hz,2H), 3.74(s.
I-663	3H), 4.06(d, J=6.9Hz, 2H), 4.95(s, 1H), 5.22(m, 1H), 5.68(s, 1H), 5.96(s, 1H), 6.44(s, 1H), 6.88-6.99(m, 4H), 7.06(d, J=1.2Hz, 1H), 7.51
	7.58(m,2H)
	IR(CHCl ₃)3528,2972,1611,1521,1488,1384,1286,1246,1112,1068,1024,883,824cm ⁻¹
	m.p.113·116℃
1.664	¹ HNMR(CDCl ₃) δ 2.55(s,6H),3.45(s,3H),3.74(s,3H),5.31(s,2H),6.44(s,1H),6.92(d,J=8.7Hz,2H),6.94(dd,J=8.4,2.1Hz,1H),7.10
	(s,1H),7.10(d,J=2.1Hz,1H),7.20(d,J=8.7Hz,1H),7.52(d,J=8.7Hz,2H)
	IR(Nujol)3491,3443,3304,3155,1662,1608,1523,1492,1464,1251,1215,1111,1067,811,782cm ⁻¹

Table 131

24.1688,1611,1595, 138,1608,1611,1595, 138,1608,1519,1480, 138,1608,1519,1480, 138,1608,1519,1480, 138,1608,1519,1480, 138,1608,1519,1480, 138,1608,1519,1480, 138,1688,1610,1520, 3°C 4SO-de, δ 3.30(s,3H),7.3 135,3411,1611,1582, 135,3411,1611,1582, 135,3411,1611,1582, 135,3411,1611,1611,1582, 136,3411,1611,1611,1682, 136,3411,1611,1611,1682, 136,3411,1611,1611,1682, 136,3411,1611,1611,1682, 136,3411,1611,1611,1682,		m.p.>260℃
H),7.11(d,J=8.4Hz,1H),7.46(d,J) IR(Nujol)3350,2668,1611,1595, foam 'HNMR(CDCl ₃) & 2.34(s,3H),2 d,J=8.4Hz,1H),7.37~7.42(m,2H) IR(Nujol)1638,1608,1519,1480, foam 'HNMR(CDCl ₃) & 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2H) IR(Nujol)1724,1688,1610,1520, m.p.221-223°C 'HNMR(DMSO-d ₆) & 3.30(s,3H),7.14,2H),7.3(R(Nujol)3535,3411,1611,1582, foam 'HNMR(CDCl ₃) & 2.79(s,3H),7.11H),7.38(dd,J=8.7,2.1Hz,1H),7.11H),7.38(dd,J=8.7,2.1Hz,1H),7.11H),7.38(dd,J=8.7,2.1Hz,1H),7.11R(Nujol)1608,1519,1480,1463	300 I	"HNMR(CD:OD)
IR(Nujol)3350,2668,1611,1595, foam 'HNMR(CDCl ₃) δ 2.34(s,3H),2 d,J=8.4Hz,1H),7.37~7.42(m,2F) IR(Nujol)1638,1608,1519,1480, foam 'HNMR(CDCl ₃) δ 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2F) IR(Nujol)1724,1688,1610,1520, m.p.221-223°C 'HNMR(DMSO-d ₆) δ 3.30(s,3F)7Hz,2H),7.3(RNujol)3535,3411,1611,1582, foam 'HNMR(CDCl ₃) δ 2.79(s,3H),3 IH),7.38(dd,J=8.7,2.1Hz,1H),7.3IH),7.31H),7.31R(Nujol)1608,1519,1463	C00-1	H),7.11(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H)
foam !HNMR(CDCl ₃) δ 2.34(s,3H),2 d,J=8.4Hz,1H),7.37~7.42(m,2F) IR(Nujol)1638,1608,1519,1480, foam !HNMR(CDCl ₃) δ 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2F) IR(Nujol)1724,1688,1610,1520, m.p.221-223 $\mathbb C$!HNMR(DMSO-d ₆) δ 3.30(s,3F) 7Hz,2H),7.00(d,J=8.4Hz,1H),7.3 IR(Nujol)3535,3411,1611,1582, foam !HNMR(CDCl ₃) δ 2.79(s,3H),3 IH),7.38(dd,J=8.7,2.1Hz,1H),7. IR(Nujol)1608,1519,1480,1463		IR(Nujol)3350,2668,1611,1595,1530,1488,1458,1402,1253,1213,1116,1073,1016,837,817,781cm-1
1HNMR(CDCl ₃) & 2.34(s,3H),2 d,J=8.4Hz,1H),7.37~7.42(m,2I) IR(Nujol)1638,1608,1519,1480, foam 1HNMR(CDCl ₃) & 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2I) IR(Nujol)1724,1688,1610,1520, m.p.221-223°C 1HNMR(DMSO-d ₆) & 3.30(s,3I) 7Hz,2H),7.00(d,J=8.4Hz,1H),7.3 IR(Nujol)3535,3411,1611,1582, foam 1HNMR(CDCl ₃) & 2.79(s,3H),3 IH),7.38(dd,J=8.7,2.1Hz,1H),7. IR(Nujol)1608,1519,1480,1463		foam
d,J=8.4Hz,1H),7.37~7.42(m,2F IR(Nujol)1638,1608,1519,1480, foam 'HNMR(CDCl ₃) & 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2F IR(Nujol)1724,1688,1610,1520, m.p.221-223°C 'HNMR(DMSO-d ₆) & 3.30(s,3F 7Hz,2H),7.00(d,J=8.4Hz,1H),7.3 IR(Nujol)3535,3411,1611,1582, foam 'HNMR(CDCl ₃) & 2.79(s,3H),3 IH),7.38(dd,J=8.7,2.1Hz,1H),7. IR(Nujol)1608,1519,1480,1463	1 GEG	¹ HNMR(CDCl ₃) δ 2.34(s,3H),2.44(s,3H),2.83(s,3H),3.12(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),4.92(s,2H),6.85(s,1H),7.17(
IR(Nujol)1638,1608,1519,1480, foam 'HNMR(CDCl ₃) & 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2F) IR(Nujol)1724,1688,1610,1520, m.p.221-223°C 'HNMR(DMSO-d ₆) & 3.30(s,3F) 7Hz,2H),7.00(d,J=8.4Hz,1H),7.3 IR(Nujol)3535,3411,1611,1582, foam 'HNMR(CDCl ₃) & 2.79(s,3H),3 IH),7.38(dd,J=8.7,2.1Hz,1H),7. IR(Nujol)1608,1519,1480,1463	000-1	d,J=8.4Hz,1H),7.37~7.42(m,2H),7.39(d,J=8.7Hz,2H),7.68(d,J=8.7Hz,2H)
foam 'HNMR(CDCl ₃) & 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2F) IR(Nujol)1724,1688,1610,1520, m.p.221-223°C 'HNMR(DMSO-d ₆) & 3.30(s,3F) 7Hz,2H),7.00(d,J=8.4Hz,1H),7.3 IR(Nujol)3535,3411,1611,1582, foam 'HNMR(CDCl ₃) & 2.79(s,3H),3 IH),7.38(dd,J=8.7,2.1Hz,1H),7.3 IR(Nujol)1608,1519,1480,1463		IR(Nujol)1638,1608,1519,1480,1459,1177,1151,1079,971,876,844,798cm ⁻¹
1HNMR(CDCl ₃) & 2.07(s,3H),2 d,J=9.0Hz,1H),7.33~7.41(m,2F IR(Nujol)1724,1688,1610,1520, m.p.221.223°C 1HNMR(DMSO-d ₆) & 3.30(s,3F)72,2H),7.00(d,J=8.4Hz,1H),7.3 IR(Nujol)3535,3411,1611,1582, foam 1HNMR(CDCl ₃) & 2.79(s,3H),3 1H),7.38(dd,J=8.7,2.1Hz,1H),7. IR(Nujol)1608,1519,1480,1463		foam
d,J=9.0Hz,1H),7.33~7.41(m,2F IR(Nujol)1724,1688,1610,1520, m.p.221.223°C 'HNMR(DMSO-d ₆) & 3.30(s,3F 7Hz,2H),7.00(d,J=8.4Hz,1H),7.3 IR(Nujol)3535,3411,1611,1582, foam 'HNMR(CDCl ₃) & 2.79(s,3H),3 1H),7.38(dd,J=8.7,2.1Hz,1H),7. IR(Nujol)1608,1519,1480,1463	2001	1HNMR(CDCl ₃) § 2.07(s, 3H), 2.53(s, 3H), 2.96(s, 3H), 3.23(s, 3H), 3.24(s, 3H), 3.78(s, 3H), 4.86(s, 2H), 6.86(s, 1H), 7.11(
	700-1	d,J=9.0Hz,1H),7.33~7.41(m,2H),7.39(d,J=8.7Hz,2H),7.67(d,J=8.7Hz,2H)
		IR(Nujol)1724,1688,1610,1520,1481,1464,1234,1177,1151,1123,1081,876,798cm ⁻¹
	. 1 669	1HNMR(DMSO-d ₆) δ 3.30(s,3H),3.64(s,3H),5.16(s,2H),6.39(s,1H),6.66(dd,J=8.4,2.1Hz,1H),6.77(d,J=2.1Hz,1H),6.84/d.J≡8
	000-1	7Hz,2H),7.00(d,J=8.4Hz,1H),7.34(s,1H),7.44(d,J=8.7Hz,2H),8.43(s,1H)
		IR(Nujol)3535,3411,1611,1582,1521,1488,1463,1244,1194,1135,1119,1074,1014,930,826,809cm ⁻¹
-		foam
	1,660	1 HNMR(CDCl ₃) δ 2.79(s,3H),3.17(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),5.21(s,2H),6.85(s,1H).7.19(d,1=8.4Hz,1H).7.93(s,2H)
IR(Nujol)1608.1519.1480.1463.1177.1151.1119.1079.971.876.7981		1H), 7.38(dd, J=8.7, 2.1 Hz, 1 H), 7.39(d, J=8.7 Hz, 2 H), 7.42(d, J=2.1 Hz, 1 H), 7.68(d, J=8.7 Hz, 2 H), 7.94(g, 1 H)
1000 10		IR(Nujol)1608,1519,1480,1463,1177,1151,1119,1079,971,876,7985m ⁻¹

Table 132

1-670 1-8Hz, 1H), 7.30(d, J=1.8, Hz, 1H), 7.37(d, J=9.0Hz, 1H), 7.48(d, J=8.7Hz, 2H), 5.60(s, 1H), 7.07(s, 1H), 7.20(dd, J=9.0Hz, 1H), 7.30(d, J=1.8, Hz, 1H), 7.38(d, J=8.7Hz, 2H), 9.38(s, 2H), 6.84(s, 1H), 7.17(d, J=8.4Hz, 1H), 7.36(d, J=8.4, 2.1Hz, 1H), 7.38(d, J=8.7Hz, 2H), 3.23(s, 3H), 3.23(s, 3H), 3.25(s, 3H), 3.25(s, 3H), 3.78(s, 3H), 5.37(s, 2H), 6.84(s, 1H), 7.17(d, J=8.4Hz, 1H), 7.36(d, J=8.7Hz, 2H), 7.38(d, J=8.7Hz, 1H), 7.38(d, J=8		m.p.198.201°C
	1.670	1HNMR(DMSO-d6) & 2.88(s,3H),3.39(s,3H),3.45(s,3H),3.52(s,3H),3.78(s,3H),4.58(s,2H),5.60(s,1H),7.07(s,1H),7.29(dd.1=9.0
foam 1H), 7.36(dd, J=8.4,2.1Hz,1H), 7.1H, 7.36(dd, J=8.4,2.1Hz,1H), 7.1H(Nujol)1608, 1519, 1481, 146; foam 1HNMR(CDCl ₃) & 2.75(s,3H), 3, J=8.4,2.1Hz,1H), 7.38(d, J=8.7) 1R(Nujol)1608, 1519, 1480, 146; foam 1HNMR(CDCl ₃) & 2.70(s,3H), 3 (d, J=8.4Hz,1H), 7.37(d, J=2.1Hm, P.153.156°C 1HNMR(CDCl ₃) & 2.18(s,3H), 1Hz,1H), 7.24(d, J=8.1Hz,1H), 7.67(d, J=8.4)		.1.8Hz,1H),7.30(d,J=1.8,Hz,1H),7.37(d,J=9.0Hz,1H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H),9.39(s,1H) IR(Nujol)3576,3500,3405,3391,1668,1607,1590,1520,1480,1469,1175,1156,1081,1014,690,690,690,690
1H), 7.36(dd, J=8.4,2.1Hz,1H), 7.36(dd, J=8.4,2.1Hz,1H), 7.36(dd, J=8.4,2.1Hz,1H), 7.36(dd, J=8.4,2.1Hz,1H), 7.38(d, J=8.7), 3. J=8.4,2.1Hz,1H), 7.38(d, J=8.7), 7.38(d, J=8.1), 7.38(d, J=8.1), 7.38(d, J=8.1), 7.38(d, J=8.4), 7.38(d, J=8.1), 7.38(d, J=8.4), 7.38(d, J=8.4		foam
1H), 7.36(dd, J=8.4,2.1Hz, 1H), 7.36(dd, J=8.4,2.1Hz, 1H), 146; foam 'HNMR(CDCl ₃) δ 2.75(s, 3H), 3, J=8.4,2.1Hz, 1H), 7.38(d, J=8.7 IR(Nujol)1608, 1519, 1480, 146; foam 'HNMR(CDCl ₃) δ 2.70(s, 3H), 3 (d, J=8.4Hz, 1H), 7.37(d, J=2.1Hm.p.153·156°C 'HNMR(CDCl ₃) δ 2.18(s, 3H), 1Hz, 1H), 7.24(d, J=8.1Hz, 1H), 7.67(d, J=8.4), 1Rz, 1H), 7.67(d, J=8.4), 1Rz, 1H, 7.67(d, J=8.4)	1.671	"HNMR(CDCl ₃) § 2.61(s,3H),2.73(s,3H),3.21(s,3H),3.23(s,3H),3.55(s,3H),3.78(s,3H),5.32(s,2H) 6 84(s,1H) 7 17/d 1=8 4H ₂
		1H),7.36(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7,Hz,2H),7.43(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H),8.46(s,1H),8.75(s,1H) IR(Nujol)1608,1519,1481,1463,1177,1151,1080,971,876,79855557
		foam
	1.679	1 HNMR(CDCl ₃) δ 2.75(s,3H),3.21(s,3H),3.25(s,3H),3.55(s,3H),3.78(s,3H),5.37(s,2H).6.84(s,1H),7.17(d,1=8.4Hz,1H),7.36(4.4Hz)
	7	J=8.4,2.1Hz,1H),7.38(d,J=8.7,Hz,2H),7.43(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H),8.59(s,1H),8.92(s,1H)
		1K(Nujoi)1608,1519,1480,1463,1177,1151,1080,971,876,798cm ⁻¹
		foam
		1HNMR(CDCl3) § 2.70(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.18(s,3H),5.14(s.2H),6.77(m.2H),6.84(s.1H) 7.19(m.9H) 7.96
		(d,J=8.4Hz,1H),7.37(d,J=2.1Hz,1H),7.38(dd,J=2.184Hz,1H),7.68(d,J=8.4Hz,9H)
		m.p.153-156 $\mathbb C$
		1HNMR(CDCl ₃) δ 2.18(s,3H),2.81(s,3H),3.18(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.14(s,2H) 6.86(s,1H) 7.18(dd 1–9.1.9
,J=8.1,8.1Hz,1H),7.67(d,J=8.4Hz,2H),7.90(d,J=8.1Hz,1H)	I-674	1Hz,1H),7.24(d,J=8.1Hz,1H),7.26(d,J=8.4Hz,1H),7.36(d,J=1.8Hz,1H),7.38(d,J=8.4Hz,2H),7.38(
IR(KBr)3384 1689 1510 1401 1964 1177 1177 1177 1177 1		,J=8.1,8.1Hz,1H),7.67(d,J=8.4Hz,2H),7.90(d,J=8.1Hz,1H)
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		IR(KBr)3384,1689,1519,1481,1364,1177,1151,1079,970,874,798cm-1

} .

	foam
1 675	¹ HNMR(CDCl ₃) δ 2.76(s,3H),3.16(s,3H),3.22(s,3H),3.23(s,3H),3.55(s,3H),3.78(s,3H),5.23(s,2H),6.85(s,1H),7.23(dd,J=7.5,7.
610-1	5Hz,1H),7.37(s,2H),7.38(d,J=8.4Hz,2H),7.43(m,3H),7.54(d,J=7.5Hz,1H),7.68(d,J=8.4Hz,2H)
	IR(KBr)3435,1609,1519,1481,1364,1177,1152,1079,972,876,798cm ⁻¹
	m.p.163-165°C
1 676	¹ HNMR(CDCl ₃) δ 2.78(s, 3H), 3.03(s, 3H), 3.21(s, 3H), 3.45(s, 6H), 3.55(s, 3H), 3.79(s, 3H), 5.31(s, 2H), 6.84(s, 1H), 7.22(d, J=8.4Hz,
1-0/0	1H),7.37(dd,J=2.4,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.42(m,2H),7.53(m,2H),7.67(d,J=8.4Hz,2H),7.68(m,1H)
	IR(KBr)1609,1519,1481,1365,1176,1161,1080,973,875,799cm ⁻¹
	m.p.153-156°C
1 677	1HNMR(CDCl3) & 2.69(s,3H),2.98(s,3H),3.17(s,3H),3.21(s,3H),3.33(s,3H),3.56(s,3H),3.78(s,3H),5.44(s,2H),6.84(s,1H),7.21(
70.1	d,J=8.7Hz,1H),7.31-7.46(m,5H),7.38(d,J=8.4Hz,2H),7.68(d,J=8.4Hz,2H),7.72(m,1H)
	IR(KBr)1610,1519,1481,1365,1177,1149,1079,963,876,799cm ⁻¹
	foam
	¹ HNMR(CDCl ₃) δ 2.60(s, 3H), 2.75(s, 6H), 3.17(s, 3H), 3.21(s, 3H), 3.55(s, 3H), 3.78(s, 3H), 5.31(s, 2H), 6.83(s, 1H), 7.08(dd, J=7.5, 7.
1.678	5Hz, 1H), 7.16(d, J=8.4Hz, 1H), 7.17(d, J=7.5Hz, 1H), 7.30(dd, J=2.1, 8.4Hz, 1H), 7.32(dd, J=7.5, 7.5Hz, 1H), 7.37(d, J=8.4Hz, 2H), 7.
	38(d,J=2.1Hz,1H),7.52(d,J=7.5Hz,1H),7.68(d,J=8.4Hz,2H)
	IR(KBr)1609,1519,1480,1365,1235,1177,1151,1079,970,874,797cm ⁻¹
	m.p.95-97°C
1.679	¹ HNMR(CDCl ₃) δ 1.76(s,3H),1.80(s,3H),3.03(s,3H),3.21(s,3H),3.56(s,3H),3.75(s,3H),4.63(d,J=6.9Hz,2H),4.93(s,2H),5.51(m,
2	1H),6.66(s,1H),7.05(d,J=8.4Hz,1H),7.09-7.17(m,2H),7.37(dd,J=2.4,8.4Hz,1H),7.44(d,J=2.4Hz,1H),7.51-7.58(m,2H)
	IR(KBr)3435,2936,1605,1519,1475,1382,1365,1232,1161,1109,1080cm-1

Table 134

1-680 1H), 6.66(s, 1H), 6.92(m, 2H), 7.03(m, 1H), 7.0 1H), 6.66(s, 1H), 6.92(m, 2H), 7.03(m, 1H), 7.0 1R(KBr)3455, 2964, 2932, 1606, 1583, 1519, m.p. 158-160°C 1HNMR(CDCl ₃) & 1.76(s, 3H), 1.81(s, 3H), 3H), 3 1H), 7.07(d, J=8.4Hz, 1H), 7.11-7.19(m, 2H), 1R(KBr)3505, 3440, 1613, 1522, 1489, 1386, m.p. 175-178°C 1-682 06(d, J=8.4Hz, 1H), 7.11-7.19(m, 2H), 7.43(d) 1R(KBr)3467, 2973, 2943, 1613, 1523, 1489, powder 1-683 22(m, 1H), 5.64(s, 1H), 6.66(s, 1H), 6.91(m, 2H) 1R(KBr)3432, 2930, 1604, 1583, 1518, 1475, 140), 173(s, 341), 173	¹ HNMR(CDCl ₃) δ 1.76(s,3H), 1.81(s,3H), 3.07(s,3H), 3.57(s,3H), 3.74(s,3H), 4.61(d, J=6.6Hz,2H), 4.90(s,2H), 5.51(m,1H), 5.65(s, 1H), 6.92(m,2H), 7.03(m,1H), 7.09-7.17(m,2H), 7.52-7.58(m,2H) IR(KBr)3455,2964,2932,1606,1583,1519,1479,1387,1283,1227,1153,1115,1080,1094,1004cm ⁻¹ m.p.158-160°C ¹ HNMR(CDCl ₃) δ 1.76(s,3H), 1.81(s,3H), 3.20(s,3H), 3.42(s,3H), 3.76(s,3H), 4.63(d, J=6.6Hz,2H), 5.51(m,1H), 6.04(s,1H), 6.43(s, 1H), 7.07(d, J=8.4Hz,1H), 7.11-7.19(m,2H), 7.42(dd, J=2.1,8.4Hz,1H), 7.50(d, J=2.1Hz,1H), 7.58-7.65(m,2H) ¹ IR(KBr)3505,3440,1613,1522,1489,1386,1352,1292,1227.1109,1013cm ⁻¹
),7.03(m,1H),7.09-7.17(m,2H),7.52-7.58(m,2H) 606,1583,1519,1479,1387,1283,1227,1153,1115,1080,1094,1004cm ⁻¹ 3H),1.81(s,3H),3.20(s,3H),3.42(s,3H),3.76(s,3H),4.63(d,J=6.6Hz,2H),5.51(m,1H),6.04(s,1H),6.43(s,1H-7.19(m,2H),7.42(dd,J=2.1,8.4Hz,1H),7.50(d,J=2.1Hz,1H),7.58-7.65(m,2H) 522,1489,1386,1352,1292,1227.1109,1013cm ⁻¹
	606,1583,1519,1479,1387,1283,1227,1153,1115,1080,1094,1004cm ⁻¹ 3H),1.81(s,3H),3.20(s,3H),3.42(s,3H),3.76(s,3H),4.63(d,J=6.6Hz,2H),5.51(m,1H),6.04(s,1H),6.43(s,1H-7.19(m,2H),7.42(dd,J=2.1,8.4Hz,1H),7.50(d,J=2.1Hz,1H),7.58-7.65(m,2H) 522,1489,1386,1352,1292,1227.1109,1013cm ⁻¹
	3H), 1.81(s, 3H), 3.20(s, 3H), 3.42(s, 3H), 3.76(s, 3H), 4.63(d, J=6.6Hz, 2H), 5.51(m, 1H), 6.04(s, 1H), 6.43(s, 11.7.19(m, 2H), 7.42(dd, J=2.1, 8.4Hz, 1H), 7.50(d, J=2.1Hz, 1H), 7.58-7.65(m, 2H) 522, 1489, 1386, 1352, 1292, 1227.1109, 1013cm ⁻¹
	3H), 1.81(s, 3H), 3.20(s, 3H), 3.42(s, 3H), 3.76(s, 3H), 4.63(d, J=6.6Hz, 2H), 5.51(m, 1H), 6.04(s, 1H), 6.43(s, 11.7.19(m, 2H), 7.42(dd, J=2.1, 8.4Hz, 1H), 7.50(d, J=2.1Hz, 1H), 7.58-7.65(m, 2H) 522, 1489, 1386, 1352, 1292, 1227.1109, 1013cm ⁻¹
	.11.7.19(m,2H),7.42(dd,J=2.1,8.4Hz,1H),7.50(d,J=2.1Hz,1H),7.58-7.65(m,2H) 522,1489,1386,1352,1292,1227.1109,1013cm ⁻¹
	522,1489,1386,1352,1292,1227.1109,1013cm ⁻¹
	$^{1}\text{HNMR}(\text{CDCI}_{3}) \delta \ \ 1.63 (\text{s,3H}), 1.92 - 2.13 (\text{m,4H}), 3.22 (\text{s,3H}), 3.42 (\text{s,3H}), 3.76 (\text{s,3H}), 4.13 (\text{t,J}=6.3 \text{Hz,2H}), 6.04 (\text{s,1H}), 6.44 (\text{s,1H}), 7.1 (\text{s,2H}), 1.0 (\text$
IR(KBr)3467,2973,2943,1613, powder 'HNMR(CDCl ₃) & 1.69(s,3H),1 22(m,1H),5.64(s,1H),6.66(s,1H IR(KBr)3432,2930,1604,1583, m.p.151-153°C	19(m,2H),7.43(dd,J=2.1,8.4Hz,1H),7.49(d,J=2.1Hz,1H),7.57.7.65(m,2H)
powder ¹ HNMR(CDCl ₃) δ 1.69(s,3H),1 22(m,1H),5.64(s,1H),6.66(s,1H IR(KBr)3432,2930,1604,1583, m.p.151-153°C HNMR(CDCl ₃) δ 1.69(s,3H) 1	, ,
1HNMR(CDCl ₃) δ 1.69(s,3H),1 22(m,1H),5.64(s,1H),6.66(s,1H IR(KBr)3432,2930,1604,1583, m.p.151-153°C	
22(m,1H),5.64(s,1H),6.66(s,1H) IR(KBr)3432,2930,1604,1583, m.p.151-153°C	$^{1}\text{HNMR}(\text{CDCl}_{3}) \delta \ \ 1.69(\text{s},3\text{H}), 1.75(\text{s},3\text{H}), 2.48 \cdot 2.57(\text{m},2\text{H}), 3.08(\text{s},3\text{H}), 3.57(\text{s},3\text{H}), 3.74(\text{s},3\text{H}), 4.06(\text{t},J=6.9\text{Hz},2\text{H}), 4.90(\text{s},2\text{H}), 5.$
930, 1604, 1583,	22(m,1H),5.64(s,1H),6.66(s,1H),6.91(m,2H),7.03(m,1H),7.08-7.17(m,2H),7.52-7.59(m,2H)
) Å 1 69(c 3H) 1	583,1518,1475,1382,1280,1249,1222,1160,1111,1082cm ⁻¹
	3H), 1.73(s, 3H), 2.50-2.59(m, 2H), 3.19(s, 3H), 3.42(s, 3H), 3.76(s, 3H), 4.06(t, J=6.9Hz, 2H), 5.21(m, 1H), 6
02(s,1H),6.43(s,1H),7.05(d,J=	.02(s,1H), 6.43(s,1H), 7.05(d,J=8.4Hz,1H), 7.11-7.19(m,2H), 7.42(dd,J=2.4,8.4Hz,1H), 7.50(d,J=2.4Hz,1H), 7.57-7.65(m,2H)
IR(KBr)3457,2937,1613,1523,1489,1465,	$IR(KBr)3457,2937,1613,1523,1489,1465,1390,1361,1295,1234,1185,1110,1072,1013cm^{-1}$

Table 135

	m.p.156-158°C
1 605	$^{1}\text{HNMR}(\text{CDCI}_{3}) \ \delta \ \ 1.76(\text{s},3\text{H}), 1.81(\text{s},3\text{H}), 3.21(\text{s},3\text{H}), 3.42(\text{s},3\text{H}), 4.54(\text{d},J=6,9\text{Hz},2\text{H}), 5.52(\text{t},J=6.9\text{Hz},1\text{H}), 6.94(\text{s},1\text{H}), 6.94(\text{s}$
000-1),6.94(d,J=8.7Hz,2H),7.29(d,J=8.7Hz,2H),7.37(d,J=8.7Hz,2H),7.71(d,J=8.7Hz,2H)
	IR(KBr)1734,1517,1464,1360,1237,1150,1061,988,862cm ⁻¹
	m.p.189-191°C
	¹ HNMR(CDCl ₃) δ 3.21(s,3H),3.21(s,3H),3.42(s,3H),3.61(s,3H),3.76(s,3H),5.09(s,2H),6.94(s,1H),7.10(d,J=8.4Hz.2H),7.28-7
000-1	48(m,9H),7.71(d,J=8.4Hz,2H)
	IR(KBr)1727,1518,1469,1365,1239,1152,1061,865cm ⁻¹
	m.p.112-113°C
1.687	¹ HNMR(CDCl ₃) δ 1.68(s,3H), 1.74(s,3H), 2.50(q, J=7.2Hz, 2H), 3.21(s, 3H), 3.42(s, 3H), 3.62(s, 3H), 3.76(s, 3H), 3.96(t, J=7.2Hz, 2H)
100-1),5.23(t,J=7.2Hz,1H),6.92(d,J=8.8Hz,2H),6.93(s,1H),7.28(d,J=8.8Hz,2H),7.37(d,J=8.8Hz,2H),7.71(d,J=8.8Hz,2H)
	IR(KBr)1735,1519,1469,1361,1246,1153,1059,877,861,847,791cm ⁻¹
	m.p.191-193°C
1.688	1HNMR(DMSO-dc) & 1.73(s,3H),1.76(s,3H),3.31(s,3H),3.71(s,3H),4.54(d,J=6,9Hz,2H),5.46(t,J=6.9Hz,1H),(s,1H),6.87(d,J=8
3	.7Hz,2H),6.91(s,1H),6.92(d,J=8.7Hz,2H),7.19(d,J=8.7Hz,2H),7.48(d,J=8.7Hz,2H),9.59(s,1H),12.8(brs,1H)
	$IR(KBr)3462,1695,1609,1520,1472,1231,1177,1062,1001,837cm^{-1}$
	m.p.229-232°C
1,689	¹ HNMR(DMSO-dε) δ 3.31(s,3H),3.71(s,3H),5.12(s,2H),6.87(d,J=8.8Hz,2H),6.98(s,1H),7.01(d,J=8.8Hz,2H),7.21(d,J=8.8Hz,2
200	H),7.34-7.50(m,7H),9.58(s,1H),12.8(brs,1H)
	IR(KBr)3424,3238,1685,1610,1521,1464,1379,1235,1180,1057,1001,826cm ⁻¹

	m.p.171-172°C
-	HNMR(DMSO-dα) δ 1.64(s,3H),1.70(s,3H),2.43(q,J=6.9Hz,2H),3.31(s,3H),3.70(s,3H),3.96(t,J=6.9Hz,2H),5.23(t,J=6.9Hz,1)
1-690	H), 6.87(d, J=8.8Hz, 2H), 6.91(d, J=8.8Hz, 2H), 6.98(s, 1H), 7.19(d, J=8.8Hz, 2H), 7.48(d, J=8.8Hz, 2H), 9.58(s, 1H), 12.8(brs. 1H)
	IR(KBr)3402,3266,1689,1612,1521,1470,1376,1241,1181,1063,1001,829cm ⁻¹
	mp191-193°C
1 601	¹ HNMR(CDC! ₃) δ 2.55(s,3H), 3.52(s,3H), 3.77(s,3H), 5.17(s,2H), 5.70(s,1H), 6.83(s,1H), 6.91(dd,J=1.8.8.1Hz.1H), 7.00-
1.031	7.05(m,2H), 7.10 -7.19 (m,2H), 7.34-7.45(m,5H),7.57-7.65(m,2H)
	1R(KBr)3030,2934,1606,1523,1487,1391,1358,1290,1228,1077,1019.947.831.815.803cm ⁻¹
	mp172-173°C
1 609	¹ HNMR(CDCl ₃) δ 2.47(s,3H),3.52(s,3H),3.53(s,3H),3.77(s,3H),5.21(s,2H),5.25(s,2H),6.82(s,1H),7.01.7.03(m.2H),7.11.
760-1	7.18(m,2H), 7.22-7.41 (m,6H), 7.57-7.63(m,2H)
,	IR(KBr)3010,2931,1602,1519,1484,1385,1369,1232,1174,1085,847,806,729,527cm ⁻¹
	mp129-132°C
1.603	1HNMR(CDCl ₃) § 3.44(s,3H), 3.53(s,3H), 3.75(s,3H), 5.20(s,2H), 5.26(s,2H), 5.91(s,1H), 6.44(s,1H), 7.01(d,J=8.1Hz.1H),
000	7.08 (dd, J=1.8Hz, 8.1Hz,1H), 7.11-7.18(m,2H),7.28-7.50(m,6H),7.57-7.64(m,2H)
	IR(KBr)2996,2952,2932,2895,1609,1522,1488,1229,1120,1075,999,911,815,724.582cm ⁻¹
	mp124-126°C
1.694	¹ HNMR(CDCl ₃) δ 1.76(d,J=0.6Hz,3H), 1.80(d,J=0.9Hz,3H), 2.69(2H,s), 3.54(s,3H), 3.57(s,3H), 3.76(s,3H),
	8-7.43(m,3H)
	IR(CHCl ₃)2935,2855,1675,1603,1520,1481,1387,1370,1247,1178,1158,1134,1081,1003,961,839.814cm.

Table 137

	mp141.142°C
1-695	¹ HNMR(CDCl ₃) δ 2.34(s,3H), 2.48(s,3H), 5.16(s,2H), 5.70(s,1H), 6.82(dd,J=8.4,2.1Hz,1H), 6.97-7.00(m,2H), 7.07. 7.13(m,4H), 7.32-7.46(m,7H)
	IR(CHCl ₃)3543,3023,2871,1604,1587,1520,1489,1469,1383,1267,1243,1159,1166,1267,1267,1267,1267,1267,1267,1267
	mp178-180°C
969·I	"HNMR(CDCl ₃) & 2.75(s,3H), 3.18(s,3H), 3.55(s,3H), 3.76(s,3H), 5.18(s,2H), 5.72(s,1H), 6.87(s,1H), 7.00(d.1=8.7H _{2.1H})
	7.15 (dd, J=8.7, 2.1Hz,1H), 7.24-7.28(m,2H), 7.36-7.50(m,8H)
	$mp129\cdot130\%$
I-697	'HNMR(CDCl ₃) § 2.24(s,3H), 2.29(s,3H), 3.12(s,3H), 5.18(s,2H), 7.08.7 14(m, 5H), 7.95.7 50(m, 9H)
	IR(CHCl ₃)2925,2871,1604,1520,1490,1455,1369,1291,1262,1169,111,1007,979,967,989,970,915
	mp124-125 C
1.608	1HNMR(CDCl ₃) & 1.77(s,3H), 1.81-1.82(d,J=0.9Hz,3H), 2.24(s,3H), 2.28(s,3H), 3.29(s,3H), 4.63(d, 1-6.6H- off), 2.64(s,3H)
	7.04-7.14(m,5H), 7.24-7.34(m,4H)
	IR(KBr)2978,2924,2868,1893,1771,1604,1520,1489,1368,1290,1261,1169,1109,1046,073,057,003,700,000
	oil
669-I	1(8,3H), 2.28(8.3H) 9.55(m.9H) 9.91/c.9U)
	4.10(t,J=6.9Hz,2H), 5.22(m,1H), 7.03-7.14(m,5H), 7.24-7.34(m,4H)
	IR(CHCl ₃)2970,2926,2875,1605,1520,1490,1470,1368,1292,1277,1169,1110,1016,673,658,678,628,628,628,628,628,628,628,628,628,62
	mp121-123°C
I-700	1HNMR(CDCl ₃) § 2.24(s,3H), 2.83(s,3H), 2.98(s,3H), 3.11(g.3H) 5.13(s.2H) 7.08.7.14(,4U) 7.61.7.027
·	IR(CHCl3)2925,1605,1520,1489,1369,1262,1169,1014,1003,979,987,989,940,945,150
	1,002,84U,816cm

	1.701	mp 215-217 °C ¹ H NMR (CDCl ₃) δ 2.73 (s, 3H), 3.13 (s, 3H), 3.18 (s, 3H), 3.57 (s, 3H), 3.78 (s, 3H), 5.20 (s, 2H), 6.86 (s, 1H), 7.16 (d, J =
mp 71-73 °C 1H NMR (CDCl ₃) \$ 1.77 (s, 3) 1H), 6.80-6.84 (dd, J = 8.4, 2.1) IR (KBr) 3537, 2977, 2924, 28 1H (KBr) 3537, 2977, 2924, 28 a) 4.05-4.10 (t, J = 6.3 Hz, 2H), 5. Hz, 1H), 7.06-7.13 (m, 4H), 7.2 IR (CHCl ₃) 3540, 2972, 2925, 2 mp 113-115 °C 1H NMR (CDCl ₃) \$ 2.24 (s, 3) 7.00 (m, 2H), 7.07-7.13 (m, 3H) IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm.	•	8.7 Hz, 1H), 7.35-7.50 (m, 9H), 7.56 (dd, J = 8.4, 2.4 Hz, 1H), 7.62 (d, J = 2.4 Hz, 1H) IR (CHCl ₃) 2939, 1613, 1519, 1480, 1371, 1294, 1254, 1150, 1130, 1083, 1083, 673, 673, 673, 673, 673, 673, 673, 67
1H NMR (CDCl ₃) & 1.77 (s, 3) 1H), 6.80-6.84 (dd, J = 8.4, 2.1) IR (KBr) 3537, 2977, 2924, 28 1H (KBr) 3537, 2977, 2924, 28 a) 4.05-4.10 (t, J = 6.3 Hz, 2H), 5. Hz, 1H), 7.06-7.13 (m, 4H), 7.2 IR (CHCl ₃) 3540, 2972, 2925, 2 mp 113-115 °C 1H NMR (CDCl ₃) & 2.24 (s, 3) 7.00 (m, 2H), 7.07-7.13 (m, 3H) IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		mp 71-73 C
IR (KBr) 3537, 2977, 2924, 28 oil 'H NMR (CDCl ₃)	I-702	
oil 'H NMR (CDCl ₃) \(\delta \) 1.69 (s, 3) 4.05-4.10 (t, J = 6.3 Hz, 2H), 5. Hz, 1H), 7.06-7.13 (m, 4H), 7.2 IR (CHCl ₃) 3540, 2972, 2925, 5 mp 113-115 \(\mathcal{C} \) 'H NMR (CDCl ₃) \(\delta \) 2.24 (s, 3) 7.00 (m, 2H), 7.07-7.13 (m, 3H) IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		IR (KBr) 3537, 2977, 2924, 2868, 1604, 1585, 1520, 1489, 1450, 1386, 1292, 1267, 1242, 1158, 1125, 996, 957, 839 cm ⁻¹
¹ H NMR (CDCl ₃) δ 1.69 (s, 3) 4.05-4.10 (t, J = 6.3 Hz, 2H), 5. Hz, 1H), 7.06-7.13 (m, 4H), 7.2 IR (CHCl ₃) 3540, 2972, 2925, 2 mp 113-115 °C ¹ H NMR (CDCl ₃) δ 2.24 (s, 3) 7.00 (m, 2H), 7.07-7.13 (m, 3H) IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		oil
4.05-4.10 (t, J = 6.3 Hz, 2H), 5. Hz, 1H), 7.06-7.13 (m, 4H), 7.2 IR (CHCl ₃) 3540, 2972, 2925, 2 mp 113-115 °C 'H NMR (CDCl ₃) δ 2.24 (s, 3 7.00 (m, 2H), 7.07-7.13 (m, 3H IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		¹ H NMR (CDCl ₃) δ 1.69 (s, 3H), 1.75-1.76 (d, $J = 0.9$ Hz, 3H), 2.24 (s, 3H), 2.28 (s, 3H), 2.50-2.57 (td, $J = 6.9$, 6.3 Hz, 2H)
Hz, 1H), 7.06-7.13 (m, 4H), 7.2 IR (CHCl ₃) 3540, 2972, 2925, 5 mp 113-115 °C ¹ H NMR (CDCl ₃) δ 2.24 (s, 3 7.00 (m, 2H), 7.07-7.13 (m, 3H) IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹	I-703	4.05-4.10 (t, J = 6.3 Hz, 2H), 5.24 (m, 1H), 5.70 (s, 1H), 6.81 (dd, J = 8.4, 1.8 Hz, 1H), 6.90 (d. J = 8.4 Hz, 1H), 6.96 (d. J = 8.4 Hz, 1H)
IR (CHCl ₃) 3540, 2972, 2925, 2 mp 113-115 °C 'H NMR (CDCl ₃) δ 2.24 (s, 3 7.00 (m, 2H), 7.07-7.13 (m, 3H IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		Hz, 1H), 7.06-7.13 (m, 4H), 7.26-7.34 (m, 2H)
mp 113-115 °C ¹ H NMR (CDCl ₃) δ 2.24 (s, 3) 7.00 (m, 2H), 7.07-7.13 (m, 3H) IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		IR (CHCl ₃) 3540, 2972, 2925, 2877, 1604, 1585, 1520, 1490, 1387, 1293, 1267, 1245, 1158, 1127, 1016, 957, 839, 200-1
¹ H NMR (CDCl ₃) δ 2.24 (s, 3) 7.00 (m, 2H), 7.07-7.13 (m, 3H) IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		-
7.00 (m, 2H), 7.07-7.13 (m, 3H IR (CHCl ₃) 3541, 2925, 2871, 957, 876, 839 cm. ¹		¹ H NMR (CDCl ₃) δ 2.24 (s, 3H), 2.28 (s, 3H), 2.39 (s, 3H), 5.11 (s, 2H), 5.69 (s. 1H), 6.82 (dd, J = 8 4, 2.4 H ₂ , 1H), 6.97.
2925, 2871,	I-704	7.00 (m, 2H), 7.07-7.13 (m, 3H), 7.22-7.36 (m, 7H)
		957, 876, 839 cm ⁻¹

Table 139

	foam
1.705	¹ H NMR (CDCl ₃) δ 3.20 (s, 3H), 3.27 (s, 3H), 3.43 (s, 3H), 3.73 (s, 3H), 4.37 (br d, J = 5.7 Hz, 2H), 4.58 (s, 2H), 5.16 (s, 2H), 5.68 (s, 1H), 6.82 (dd, J = 8.2, 1.7 Hz, 1H), 6.88 (s, 1H), 6.97 (d, J = 1.7 Hz, 1H), 6.98 (d, J = 8.2 Hz, 1H), 7.35-7.47 (m, 7H), 7.71 (d, J = 8.7 Hz, 2H)
1.706	foam 1H NMR (CDCl ₃)
I-707	mp 120-121 $\[C$ 1H NMR (CDCl ₃) $\[\delta$ 3.45 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.66 (s, 2H), 4.77 (s, 2H), 5.15 (s, 2H), 5.67 (s, 1H), 5.91 (s, 1H), 6.96 (dd, J = 8.4, 1.9 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 1.9 Hz, 1H), 7.37-7.47 (m, 7H), 7.64 (d, J = 1R (KBr) 3504 3461 1592 1485 1465 1364 1592 1485 1465 1465 1465 1465 1465 1465 1465 146
1-708	mp 156-158 °C 1H NMR (CDCl ₃) ° 3.11 (s, 3H), 3.21 (s, 3H), 3.28 (s, 3H), 3.42 (s, 3H), 3.73 (s, 3H), 4.38 (s, 2H), 4.58 (s, 2H), 5.18 (s, 2H), 1R (KBr) 1514, 1469, 1360, 1177, 1149, 1000, 1043, 9.70.
I-709	mp 188-190 $\mathbb C$ 'H NMR (CDCl ₃) δ 1.70 (t, $J = 5.7$ Hz, 1H), 3.45 (s, 3H), 3.75 (s, 3H), 4.77 (d, $J = 5.7$ Hz, 2H), 5.16 (s, 2H), 5.68 (s, 1H), 7.65 (d, $J = 8.4$ Hz, 2H) 7.65 (d, $J = 8.4$ Hz, 2H)
	22 (127) 5041, 5452, 5451, 1521, 1487, 1385, 1288, 1249, 1209, 1108, 1011, 746, 702 cm ⁻¹

I-710	mp 178-180 °C ¹ H NMR (CDCl ₃) δ 2.43 (br s, 1H), 3.44 (s, 3H), 3.72 (s, 3H), 4.52 (m, 2H), 4.93 (s, 1H), 5.15 (s, 2H), 5.70 (s, 1H), 6.79 (dd, J = 8.1, 2.1 Hz, 1H), 6.84 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.93 (d, J = 2.1 Hz, 1H), 7.00 (d, J = 8.7 Hz, 1H), 7.38-7.48 (m, 5H), 7.54 (d, J = 9.0 Hz, 2H)
1.711	foam 'H NMR (CDCl ₃)
	IK (Nujol) 3423, 3320, 3215, 1610, 1519, 1480, 1454, 1176, 1151, 1080, 969, 876, 798 cm ⁻¹
I-712	MR (CDCl ₃)
1.713	mp 231-233°C "H NMR (CDCl ₃) & 3.30 (s, 3H), 3.64 (s, 3H), 5.28 (s, 2H), 6.39 (s, 1H), 6.67 (dd, J = 8.4, 2.1 Hz, 1H), 6.80 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 7.01 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H), 8.64 (d, J = 2.4 Hz, 1H), 8.67 (dd, J = 2.4, 1.2 Hz, 1H) IR (Nuiol) 3369 3164 (1619 1600 1707 1707 1707 1707 1707 1707 1707
I-714	foam 1H NMR (CDCl ₃) & 2.83 (s, 3H), 3.22 (s, 3H), 3.27 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.18 (s, 2H), 6.85 (s, 1H), 7.20 (d, J = 8.4 Hz, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.40 (dd, J = 8.4, 2.1 Hz, 1H), 7.45 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) 1R (Nujol) 3264, 1650, 1607, 1517, 1480, 1175, 1150, 1078, 946, 876, 798 cm ⁻¹

Table 141

	foam
	14 NMR (CDCl ₃) & 2.76 (s, 3H), 2.77 (s, 3H), 3.21 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.35 (s, 9H), 6.84 (c, 1H)
1-715	7.25 (d, J = 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.38 (dd, J = 8.4. 2.1 Hz, 1H), 7.44 (d. J = 9.1 Hz, 1H), 7.84 (d. J = 9.4. 2.1 Hz, 1H), 7.44 (d. J = 9.1 Hz, 1H), 7.85 (d. J = 9.4. 2.1 Hz, 1H), 7.45 (d. J = 9.1 Hz, 1H), 7.85 (d. J = 9.4. 2.1 Hz, 1H), 7.45 (d. J = 9.1 Hz, 1H
	2H)
	IR (Nujol) 1607, 1578, 1519, 1465, 1176, 1151, 1079, 971, 947, 876, 846, 797, cm.1
	mp 227-229°C
-	1H NMR (DMSO-dc) & 2.87 (s, 3H), 3.39 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 5.93 (s, 9H), 7.02 (s, 1H), 7.02 (s, 1H)
1.710	= 2.1 Hz, 1H), 7.35 (dd, J = 8.4, 2.1 Hz, 1H), 7.44 (d. J = 8.4 Hz, 1H), 7.49 (d. 1 = 8.7 Hz, 9H), 7.47 (d. J. 1 - 9.7 Hz, 1H), 7.40 (d. J. 2 - 9.1 Hz, 1H), 7.40 (d. J. 3 - 9.1 Hz, 1H)
	IR (Nujol) 3276, 1651, 1605, 1520, 1480, 1463, 1174, 1150, 1079, 947, 879, 708, 2001.
1.717	¹ H NMR (CDCl ₃) & 3.07 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.18 (s, 2H) 6.45 (s, 1H) 6.92 (d. 1= 8.7 Hz, 9H) 6.00 (s, 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1
	1.8, 8.4 Hz, 1H), 7.08 (d, J = 1.8 Hz, 1H), 7.10 (d, J= 8.4 Hz, 1H), 7.25 (t, J= 7.9 Hz, 1H), 7.44 (m, 9H), 7.53 (1, J= 6.7 m)
	2H), 7.61 (d, J = 8.1 Hz, 1H)
	foam
1.718	¹ H NMR (CDCl ₃) δ 3.06 (s, 3H), 3.45(s, 3H), 3.74(s, 3H), 5.17 (s. 2H), 6.45 (s. 1H), 6.93 (d. J= 8.7 Hz, 9H), 6.08 (J. 1 = 6.7)
0717	Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.24 (m. 1H) 7.43 (m. 9H) 7.51 (d. 1-8.7 Hz, 9H) 7.51 (m. 1H)
	IR (KBr) 3430, 1611, 1590, 1523, 1490, 1402, 1323, 1242, 1149, 1112, 1070, 1010, 971, 896, 2011, 12, 211), 7.01 (m, 1H)
	foam
1.719	1H NMR (CDCl3) & 2.80 (s, 6H), 3.47 (s, 3H), 3.76 (s, 3H), 5.08 (s 2H), 6.46 (s. 1H), 6.92 (d. J= 8.7 Hz, 3H), 7.10 (d. J= 8.7 Hz)
	Hz, 1H), 7.15 (d, $J = 8.7 \text{ Hz}$, 1H), 7.20 (d, $J = 7.2 \text{ Hz}$, 1H), 7.34-7.45 (m, 3H), 7.55 (d, $J = 8.7 \text{ Hz}$, 9H)
	IR (KBr) 3427, 1611, 1585, 1522, 1488, 1404, 1224, 1113, 1069, 1011, 940, 894, 767,
	, 1000, 1000, 1011, 340, 064, 101 Cm.

Table 142

	foam
	¹ ¹ H NMR (CDCl ₃)
1-720	1H), 7.11 (m, 1H), 7.12 (d, J = 9.0 Hz, 1H), 7.25 (m, 1H), 7.30 (d. J = 7.5 Hz, 1H), 7.39 (d. J = 1.9 o o rr 1.10 o o o o o rr 1.10 o o o o o o o o o o o o o o o o o o o
	8.7 Hz, 2H); 7.41 (d, $J = 1.8$ Hz, 1H), 7.60 (s, 1H), 7.67 (d, $J = 8.7$ Hz, 2H)
	IR (KBr) 1724, 1610, 1520, 1481, 1366, 1234, 1177, 1153, 1079, 960, 975, 707, 1
	m.p 187-191 °C
	1H NMR (CDCl3) 6 2.66 (s, 3H), 3.17 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H) 3.78 (s, 3H) 5.11 (c, 9H) 5.77 (1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 2, 1, 1, 2, 2, 1, 2, 2, 1, 2, 2, 1, 2, 2, 1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
I-721	6.81 (m, 2H), 6.84 (s, 1H), 7.12 (d, J = 8.7 Hz, 1H), 7.17 (t, J = 8.7 Hz, 1H), 7.39 (33.1 L o 1 o 2 1 c 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
	2H), 7.40 (d, $J = 2.1 \text{ Hz}$, 1H), 7.67 (d, $J = 8.7 \text{ Hz}$. 2H)
	IR (KBr) 1624, 1606, 1519, 1481, 1361, 1176, 1148, 1081, 080, 976, 780,
	m.p 143-146 °C
	¹ H NMR (CDCl ₃)
I-722	7.12 (d, J = 8.7 Hz, 1H), 7.17 (d, J = 7.2 Hz, 1H), 7.33 (m. 2H), 7.37 (d. J = 8.7 Hz, 90.0), 7.37 (d.
	7.2 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H), 7.67 (m, 1H)
	IR (KBr) 1693, 1609, 1519, 1481, 1364, 1364, 1173, 1149, 1079, 974, 908, 1
	foam
	¹ H NMR (CDCl ₃) δ 2.86 (s, 3H), 3.00 (s, 3H), 3.52 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.99 (s, 9H), 5.99 (s, 9H)
I-723	7.10 (d, $J = 8.4$ Hz, 1H), 7.25 (m, 3H), 7.32 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.32 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.32 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$. 8.7 Hz, 1H), 7.38 (d, $J = 2.1$. 8.7 Hz, 1H), 7.37 (d, $J = 2.1$
	1H), 7.67 (d, $J = 8.7 \text{ Hz}$, 2H)
	IR (KBr) 1610, 1519, 1480, 1364, 1176, 1150, 1070, 671, 876, 767, 1
	, 2000, 1001, 1101, 1110, 1100, 1019, 971, 876, 797 cm.

Table 143

	foam
1-724	¹ H NMR (CDCl ₃) δ 2.74 (s, 3H), 3.18 (s, 3H), 3.21 (s, 3H), 3.43 (s, 6H), 3.55 (s, 3H), 3.78 (s, 3H), 5.24 (s, 2H), 6.84 (s, 1H), 7.13 (d, J= 8.4 Hz, 1H), 7.36 (dt, J = 2.1, 8.4 Hz, 1H), 7.37 (m, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1 Hz, 1H), 7.51 (m, 2H), 7.61 (s, 1H), 7.67 (d, J = 8.7 Hz, 2H)
1.725	in.p 147-150 °C 1H NMR (CDCl ₃)
1.726	m.p 224-226 °C ¹ H NMR (CDCl ₃)
1.727	foam 1H NMR (CDCl ₃)
1.728	foam 1H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 5.06 (s, 2H), 6.45 (s, 1H), 6.68 (d, J = 7.5 Hz, 1H), 6.77 (s, 1H), 6.82 (d, J = 7.5 Hz, 1H), 7.07 (d, J = 1.8 Hz, 1H), 7.19 (t, J = 7.5 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) 17.5 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) 18. (KBr) 3413, 1611, 1522, 1488, 1461, 1405, 1251, 1119, 1076, 1007, 813, 784 cm. 1

Table 144

	m.p 90.93 °C
1.799	¹ H NMR (CDCl ₃) δ 3.01 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 6.45 (s. 1H), 6.81 (s. 1H), 6.92 (d. 1 = 8.7 Hz, 9H)
	6.95 (d, $J = 1.8$ Hz, 1H), 6.96 (m, 2H), 7.24 (m, 2H), 7.40 (t, $J = 7.2$ Hz, 1H), 7.52 (d, $J = 8.7$ Hz, 2H)
	IR (KBr) 3434, 1612, 1592, 1523, 1489, 1325, 1248, 1994, 1147, 1113, 1070, 1010, 678,
	mp 79-81 °C
1.730	H NMR (CDCl3) & 2.34 (s, 6H), 3.48 (s, 3H), 3.76 (s, 3H), 4.72 (brs, 1H), 5.16 (s. 2H), 5.68 (hrs. 1H), 5.03 (hrs. 1H), 6.44
3	(s, 1H), 6.99-7.10 (m, 3H), 7.26-7.49 (m, 7H)
	IR(KBr) 3467, 2933, 1613, 1701, 1517, 1482, 1454, 1424, 1389, 1321, 1196, 1148, 1113, 1073, 500.1
	mp189-191 °C
1,731	1H NMR (CDCl ₃) & 3.20 (s, 3H), 3.81 (s, 6H), 5.14 (s, 2H), 5.65 (brs. 1H). 6.79 (s. 2H), 6.79.702 (m. 5H), 7.35.7.25.7
101.1	6H), 7.66 (d, J = 8.6 Hz, 2H)
	IR(KBr) 3439, 2937, 1594, 1567, 1523, 1487, 1351, 1940, 1909, 1146, 1196, 974, 1
	mp196-197 °C
1 739	1H NMR (DMSO-dc) 6 3.32 (s, 3H), 3.43 (s, 6H), 3.79 (s, 6H), 5.24 (g, 2H) 7.00 (s, 9H) 7.93 7.30 (m, 9H) 7.07 7.7 7.7
701.1	7H), 7.88 (d, $J = 8.4 \text{ Hz}$, 2H)
	IR(KBr) 3434, 1602, 1561, 1523, 1485, 1362, 1288, 1238, 1201, 1181, 1148, 1136, 1111, 200, 211, 212
	mp202-203 °C
1.733	1H NMR (DMSO-dc) & 2.40 (s, 6H), 3.31 (s, 3H), 3.34 (s, 3H), 3.51 (s, 3H), 3.58 (s, 3H), 3.77 (s, 3H), 5.97 (c, 9H), 7.02 (c, 9H)
3	1H), 7.32-7.530 (m, 10H)
	IR(KBr) 3434, 3028, 2944, 1515, 1475, 1463, 1361, 1290, 1272, 1247, 1179, 1085, 967, 815, 804, 2001, 1
	, 1000, 201, 613, 604 CM.

Table 145

	mp140.141 °C
1.734	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s. 3H), 3.21 (s, 3H), 3.83 (s, 6H), 4.63 (d. J = 4.6 Hz, 9H) 5.59 5.52 (m. 111) 5.50 (s. 6H)
5	2H), 7.05 (d, $J = 8.8$ Hz, 1H), $7.29-7.42$ (m, 4H), 7.67 (d, $J = 8.6$ Hz, 2H)
	IR(KBr) 3434, 2936, 1602, 1565, 1487, 1365, 1949, 1189, 1189, 1199, 1119, 2119
	mp168-169 °C
 I-735	¹ H NMR (CDCl ₃) δ 2.38 (s, 3H), 3.09 (s. 3H), 3.20 (s, 3H), 3.81 (s, 6H), 5.11 (s, 2H), 6.78 (s. 2H) 713.7 49 (m. 9H) 7.66 (s.
	$J = 8.8 \mathrm{Hz}, 2\mathrm{H})$
	1R(KBr) 3433, 1601, 1566, 1486, 1367, 1246, 1182, 1153, 1114, 973, 869, 824 cm.
	mp192-194 °C
1.736	1H NMR (CDCl3) & 1.77 (s, 3H), 1.82 (s. 3H), 2.47 (s, 6H), 2.72 (s. 3H), 3.24 (s. 3H), 3.36 (s. 9H), 2.77 (s. 9H)
8	4.64 (d, $J = 6.6$ Hz, 2H), $5.47 \cdot 5.55$ (m, 1H), 6.83 (s, 1H), 7.09 (d, $J = 9.0$ Hz, 1H), $7.33.7$ (6, 7.09 (m, 1H), 7.09 (d, $7.$
	IR(KBr) 3435, 1942, 1516, 1474, 1382, 1357, 1288, 1178, 1096, 969, 869, 805, 2011, 1007, 111, 111, 111, 111, 111, 111,
	mp224-225 °C
1.737	1H NMR (CDCl ₃) & 2.38 (s, 3H), 2.46 (s, 6H), 2.66 (s. 3H), 3.12 (s. 3H) 3.35 (s. 3H) 3.55 (s. 9H) 3.55 (s. 9H)
5	6.82 (s, 1H), 712-7.40 (m, 9H)
	IR(KBr) 3435, 2941, 1518, 1474, 1360, 1274, 1179, 1005, 1085, 967, 962, 912, 922
	mp203-204 C
1.738	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s. 3H), 2.46 (s, 6H), 2.45.2.58 (m. 2H) 2.73 (s. 3H) 3.99 (s. 3H) 3.95 (s. 3H)
	3H), 3.77 (s, 3H), 4.07 (d, $J = 6.6$ Hz, 2H), 5.18-5.25 (m, 1H), 6.82 (s. 1H), 7.07 (d. $J = 8.9$ Hz, 1H), 7.02 (d. $J = 8.9$ Hz, 1H), 7.02 (s. 1H), 6.82 (s. 1H), 7.03 (d. $J = 8.9$ Hz, 1H), 7.03 (g. $J = 8.9$ Hz, 1H)
	IR(KBr) 3434, 2941, 1519, 1473, 1359, 1276, 1178, 1114, 1085, 967, 860, 811, 2011, 111, 1134, 1134, 113
	(100, 100, 100, 100, 100, 100, 100, 100

Table 146

	mp158-159 °C
1 720	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.76 (s. 3H), 3.72 (s, 6H), 4.54 (d, J = 6.0 Hz, 2H), 5.45-5.52 (m. 1H) 6.55-6.59 (m. 9H)
CO 1-1	6.84-6.90 (m, 5H), 7.57 (d, J = 8.2 Hz, 2H), 8.70 (brs, 1H), 9.53 (brs, 1H)
	1R(KBr) 3465, 2932, 1610, 1523, 1487, 1460, 1283, 1281, 1123, 1010, 819 cm ⁻¹
	mp180-181 ℃
1 740	¹ H NMR (CDCl ₃) δ 2.32 (s, 3H), 3.72 (s, 6H), 5.08 (s, 2H), 6.54-6.58 (m. 1H), 6.68 (s, 1H), 6.85-6.95 (m. 5H), 7.21 (d. 1-
0.1	7.6 Hz, 2H), 7.39 (d, J = 7.8 Hz, 2H), 7.57 (d, J = 8.4 Hz, 2H), 8.83 (brs, 1H), 9.54 (brs. 1H)
	IR(KBr) 3519, 2937, 1607, 1562, 1523, 1461, 1400, 1246, 1176, 1195, 1003, 891, 227, 1
	mp105-106 C
1 741	¹ H NMR (CDCl ₃) δ 2.13 (s, 6H), 3.17 (s, 3H), 5.16 (s, 2H), 5.85 (brs, 1H), 6.61-6.66 (m. 1H), 6.77 (s. 1H), 7.01 (d. 1 = 8.9)
	Hz, 1H), 7.25-7.46 (m, 9H), 7.65 (d, J = 8.8 Hz, 2H)
	IR(KBr) 3466, 3031, 2934, 1585, 1513, 1476, 1366, 1285, 1198, 1175, 1148, 1127, 1014, 968, 840, 2001, 1
	mp92.93 C
	¹ H NMR (DMSO-d ₆) δ 1.74 (s, 3H), 1.78 (s. 3H), 2.24 (s, 6H), 3.31 (s. 3H), 3.65 (s. 3H) 4 56 (d. J = 6 8 Hz, 9H) 5 59 (t. 1 - 1)
I-742	6.0 Hz, 1H), 6.37 (s, 1H), 6.64-6.76 (m, 2H), 6.88-6.93 (m. 1H), 7.16-7.20 (m. 2H), 8.31 (hrs. 1H), 8.45 (hrs. 1H), 6.73 (m. 2H), 6.73 (m. 2H)
	1H)
	IR(KBr) 3443, 2932, 1707, 1613, 1516, 1484, 1462, 1387, 1280, 1243, 1196, 1114, 1074, 679, 200, 1114
	mp180.181 C
1.743	1H NMR (DMSO-dc) & 2.22 (s, 6H), 2.32 (s, 3H), 3.29 (s, 3H), 3.63 (s, 3H), 5.08 (s. 2H), 6.61-6.65 (m. 1H), 6.75 (s. 1H), 6.93
	(d, J = 8.2 Hz, 1H), 7.13.7.22 (m, 4H), 7.39 (d, J = 7.4 Hz, 2H), 8.30 (brs, 1H), 8.44 (brs. 1H), 8.84 (brs. 1H)
	IR(KBr) 3443, 2930, 1686, 1614, 1587, 1518, 14863, 1462, 1385, 1281, 1246, 1197, 1113, 1073, 1009, 200, 200, 100, 100, 100, 100, 100, 100
	, 100, 100, 100, 100, 100, 100, 100, 10

Table 147

<u>-</u>	mp123.124 C
1-744	¹ H NMR (DMSO-d ₆) δ 1.65 (s, 3H), 1.71 (s, 3H), 2.23 (s, 6H), 2.36-2.51 (m, 2H), 3.31 (s, 3H), 3.64 (s, 3H), 3.91-3.98 (m, 2H), 5.22-5.28 (m, 1H), 6.36 (s, 1H), 6.65-6.88 (m, 3H), 7.16 (s, 1H), 8.30 (brs, 1H), 8.44 (brs, 1H), 8.70 (brs, 1H)
	IR(KBr) 3444, 2930, 1686, 1613, 1518, 1483, 1390, 1283, 1248, 1198, 1113, 1074, 1013 cm ⁻¹ mp 174-177 °C
	¹ H NMR (CDCl ₃) & 1.77-1.78 (d, J = 0.9 Hz, 3H), 1.82-1.83 (d, J = 0.9 Hz, 3H), 2.74 (s. 3H), 3.18 (s. 3H), 3.95 (s. 2H), 9.55
I-745	(s, 3H), 3.78 (s, 2H), 4.64-4.67 (d, J = 6.9 Hz, 2H), 5.51 (m, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.35-7.40 (m, 2H), 7.45-7.49 (m, 9H), 7.55-7.40 (m, 2H),
	IR (CHCl ₃) 2939, 1613, 1519, 1480, 1971, 1931, 1992, 1972,
	mp 134-136 ℃
	¹ H NMR (CDCl ₃) δ 1.69 (s, 3H), 1.75 (s, 3H), 2.53-2.60 (dt. J = 6.6. 5.7 Hz, 9H) 9.73 (s, 9H) 9.19 (s, 9H) 9.73 (s, 9H)
I.746	(s, 3H), 3.78 (s, 3H), 4.07-4.11 (t, J = 5.7 Hz, 2H), 5.22 (m, 1H), 6.86 (s, 1H), 7.07 (s, 1 = 0.0 Hz, 1H), 2.53 (s, 3H), 3.56
	7.45-7.49 (m, 2H), 7.55-7.61 (m, 2H)
	IR (CHCl ₃) 2938, 1614, 1519, 1480, 1448, 1371, 1331, 1904, 1839, 1172,
	mp 182-183 °C
1.747	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 2.28 (s, 3H), 4.74 (s, 1H), 5.16 (s. 2H), 5.69 (s. 1H), 6.81, 6.89 (m. 2H), 6.96 (s. 2H)
	7.10-7.12 (d, J = 4.8 Hz, 2H), 7.23-7.26 (m, 2H), 7.39-7.45 (m, 5H)
	IR (CHCl ₃) 3597, 3543, 2924, 2871, 1611, 1587, 1522, 1490, 1455, 1382, 1171, 1126, 1019, 836, cm. 1
	mp 158-161 °C
1-748	1H NMR (CDCl ₃) 6 2.38 (s, 3H), 2.74 (s, 3H), 3.12 (s, 3H), 3.18 (s, 3H), 3.57 (s, 3H), 3.78 (s, 3H), 6.15 (c, 6H), 6.62 (c, 6H)
	7.16 (d, J = 8.7 Hz, 1H), 7.21-7.24 (d, J = 7.8 Hz, 1H), 7.35-7.40 (m. 5H), 7.45-7.49 (m. 9H), 7.59-7.69 (m. 6H),
	IR (CHCl ₃) 2939, 1732, 1614, 1519, 1480, 1331, 1294, 1253, 1176, 1150, 1119, 1003, 1003, 202, 203
	, 1113, 1082, 1003, 970, 869, 816 cm ⁻¹

	mp 1/4-1/6 C
_	¹ H NMR (CDCl ₃) & 1.75 (s, 3H), 1.79 (s, 3H), 2.58 (s, 3H), 3.52 (s, 3H), 3.53 (s, 3H), 3.78 (s, 9H), 4.69 (s, 1 s, 2 s, 2
I-749	5.48-5.55 (m, 1H), 6.83 (s, 1H), 6.99 (d, J = 8.7 Hz, 1H), 7.09 (dd, J = 1.8, 8.1 Hz, 1H), 7.09 (dd, J = 2.48-5.55 (m, 1H), 7.11, 7.10 (dd, J = 8.7 Hz, 1H), 7.09 (dd, J = 1.8, 8.1 Hz, 1H), 7.11, 7.1
	1H), 7.57-7.65 (m, 2H)
	IR (KBr) 2932, 1602, 1519, 1485, 1385, 1368, 1174, 1086, 1015, 986, 848, 804, 527, 2001
	mp 129-131 °C
	¹ H NMR (CDCl ₃) & 1.75 (s, 3H), 1.79 (s, 3H), 3.45 (s, 3H), 3.53 (s, 3H), 3.75 (s, 3H), 4.62 (d, 1 - g, e, u - g, u -
I-750	5.50-5.58 (m, 1H), 5.90 (s, 1H), 6.44 (s, 1H), 6.99 (d, J = 8.7 Hz, 1H), 7.08-7.18 (m, 3H), 7.90 (4, 1 - 1.9 Hz, 1H), 7.08-7.18 (m, 3H), 7.08 (m, 3H), 7.
	2H)
	IR (KBr) 3361, 2953, 2934, 1522, 1488, 1460, 1391, 1230, 1154, 1121, 1071, 202, 512, 512, 1
	mp 148-150 °C
	¹ H NMR (CDCl ₃) δ 1.68 (s, 3H), 1.74 (s, 3H), 2.51-2.60 (m. 5H), 3.53 (s, 6H), 3.77 (s, 3H), 4.09 (t, 1 = 7.9 H), 21.5
1.751	5.25 (m, 3H), 6.83 (s, 1H), 6.98 (d, J = 8.4 Hz, 1H), 7.08 (dd. J = 2.1 8.4 Hz, 1H), 7.11 7.19 (dd. J
	7.57-7.64 (m, 2H)
	IR (KBr) 2931, 1603, 1519, 1484, 1386, 1370, 1231, 1175, 1086, 1015, 983, 961, 947, 705, 705
	mp 99-101 °C
	¹ H NMR (CDCl ₃) δ 1.68 (s, 3H), 1.73 (s, 3H), 2.55 (q, J = 7.2 Hz. 2H) 3.44 (s. 3H) 3.54 (s. 9H) 3.75 (s. 9H) 3.75 (s. 9H)
I-752	Hz, 2H), 5.20-5.25 (m, 3H), 5.89 (s, 1H), 6.44 (s, 1H), 6.98 (d. J = 8.1 Hz, 1H), 7.09-7.18 (m, 2H), 7.05-7.07 (m, 2H)
	(m, 2H)
	IR (KBr) 3349, 2930, 1609, 1523, 1489, 1231, 1152, 1121, 1072, 994, 912, 508, 2001,
	(1) 10(2, 334, 312, 388 cm ⁻¹

Table 149

	mp 115-117 °C
	1H NMR (CDCL3) & 1.69 (s, 3H), 1.75 (s, 3H), 2.53 (q, J = 6.9 Hz, 2H), 2.62 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.06 (t, 1 = 6.0)
1-753	Hz, 2H), 5.18-5.25 (m, 1H), 5.70 (s, 1H), 6.83 (s, 1H), 6.89-6.95 (m, 2H), 7.02 (d, $J = 1.2$ Hz, 1H), 7.10-7.18 (m, 9H), 7.57.7 ge
	(m, 2H)
	IR (KBr) 3545, 2931, 1604, 1520, 1485, 1370, 1249, 1232, 1175, 1084, 1019, 813, 526, 200.1
	1H NMR (CDCl ₃) & 1.14 (t, J = 6.9 Hz, 3H), 1.29 (t, J = 6.9 Hz, 3H), 2.50 (s, 3H), 3.19 (s, 3H) 3.71 (a, J = 6.9 Hz, 9H), 4.00
1.754	(q, J = 6.9 Hz, 2H), 5.18 (s, 2H), 5.68 (s, 1H), 6.83 (s, 1H), 6.91 (dd, J = 1.8, 8.4 Hz, 1H), 7.00 (d, J = 8.4 H
	1.8 Hz, 1H), 7.32-7.48 (m, 7H), 7.66-7.74 (m, 2H)
	IR (CHCl ₃) 3532, 2976, 1586, 1516, 1468, 1369, 1282, 1174, 1148, 1068, 1016, 967, 907, 871, cm. 1
	amorphous powder
	¹ H NMR (CDCl ₃) δ 1.15 (t, $J = 6.9$ Hz, 3H), 1.28 (t, $J = 6.9$ Hz, 3H), 3.59 (a. $J = 6.9$ Hz, 2H) 3 97 (c. $J = 6.9$ Hz, 9H)
I-755	(s, 1H), 5.15 (s, 2H), 5.64 (s, 1H), 5.98 (s, 1H), 6.45 (s, 1H), 6.86.6.94 (m. 2H), 6.96.7 04 (m. 2H), 7.19 (m. 2H), 7.10 (m. 2H
	7.35-7.56 (m, 7H),
	IR (CHCl ₃) 3534, 1610, 1521, 1488, 1383, 1169, 1116, 1064, 1018, 832 cm ⁻¹
	mp 126.129 C
	¹ H NMR (CDCl ₃) & 1.14 (t, J = 6.9 Hz, 3H), 1.30 (t, J = 6.9 Hz, 3H), 1.76 (g. 3H), 1.81 (g. 3H), 9.69 (c. 9H), 2.90 (c. 9H)
I-756	3.23 (s, 3H), 3.72 (q, $J = 6.9$ Hz, 2H), 4.00 (q, $J = 6.9$ Hz, 2H), 4.64 (d, $J = 6.6$ Hz, 2H), 5.49 (m, 1H), 6.94 (c, 1H), 6.94 (d, 7), 7.09 (c), 7.09 (d), 7.09 (d), 7.09 (e), 7.09 (f), 7.09
	8.7 Hz, 1H), 7.32-7.42 (m, 4H), 7.56-7.72 (m, 2H)
	IR (CHCl ₃) 1609, 1516, 1467, 1369, 1267, 1229, 1175, 1148, 1115, 1069, 968, 967, 971,,
	(110, 110), 1110, 1110, 1110, 1003, 306, 307, 8/1 cm.

1.757	mp 123-135 °C (dec.) ¹ H NMR (CDCl ₃) ° 1.14 (t, J = 6.9 Hz, 3H), 1.29 (t, J = 6.9 Hz, 3H), 2.37 (s, 3H), 2.64 (s, 3H), 3.12 (s, 3H), 3.20 (s, 3H), 3.71 (q, J = 6.9 Hz, 2H), 4.00 (q, J = 6.9 Hz, 2H), 5.14 (s, 2H), 6.83 (s, 1H), 7.14 (d, J = 8.7 Hz, 1H), 7.18-7.24 (m, 2H), 7.40 (m, 5H), 7.41 (d, J = 2.1 Hz, 1H), 7.65-7.72 (m, 2H) IR (CHCl ₃) 1607, 1517, 1467, 1369, 1330, 1268, 1175, 1148, 1116, 1069, 1092, 967, 967, 967, 967, 967, 967, 967, 967
I-758	amorphous powder 'H NMR (CDCl ₃) \(\delta\) 1.15 (t, J = 6.9 Hz, 3H), 1.28 (t, J = 6.9 Hz, 3H), 1.76 (s, 3H), 1.82 (d, J = 0.6 Hz, 3H), 3.59 (q, J = 6.9 Hz, 2H), 4.87 (s, 1H), 5.53 (m, 1H), 5.66 (s, 1H), 5.97 (s, 1H), 6.45 (s, 1H), 1.80 (m, 4H), 7.09 (d, J = 1.8 Hz, 1H), 7.50-7.57 (m, 2H) IR (CHCl ₃) 3528, 2978, 1611, 1521, 1487, 1419, 1302,
1.759	amorphous powder 1H NMR (CDCl ₃) δ 1.15 (t, J = 6.9 Hz, 3H), 1.27 (t, J = 6.9 Hz, 3H), 2.39 (s, 3H), 3.59 (q, J = 6.9 Hz, 2H), 3.97 (q, J = 6.9 Hz, 2H), 4.88 (s, 1H), 5.10 (s, 2H), 5.64 (s, 1H), 5.97 (s, 1H), 6.45 (s, 1H), 6.97-7.01 (m, 2H), 7.11 (d, J = 1.5 Hz, 1H), 7.20-1R (CHCl ₃) 3526, 2974 1612 1520 1488 1410 1302
I.760	mp 169-171 °C "H NMR (CDCl ₃)
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

Table 151

	mp 175-177 °C
1.761	1H NMR (DMSO-de) 8 1.70 (s, 6H), 3.67-3.73 (m, 2H), 3.71 (s, 3H), 3.72 (s, 3H) 4.59 (hr, 1H) 5.97 5.91 (m, 1H) 5.50 (m, 1H)
101.1	J = 8.1 Hz, 1H), 6.77-6.95 (m, 6H), 7.34-7.40 (m, 2H), 9.23 (br s. 1H) 9.42 (br s. 1H)
	IR (KBr) 3600-2400(br), 1609, 1522, 1492, 1463, 1384, 1263, 1908, 1174, 1190, 1055, 1003
	mp 151-153 C
	¹ H NMR (CDCl ₃) δ 1.78 (s, 3H), 1.85 (s, 3H), 3.78 (s, 3H), 3.80 (s, 3H), 4.72 (d, J ≡ 6.9 H ₂ 2H), 5.39 5.44 (= 11), 5.52 (d)
I-762	J = 3.0 Hz, 1H), 6.95 (s, 1H), 7.05 (s, 1H), 7.09-7.16 (m, 3H), 7.38 (d. $J = 8.7 Hz$, 1H) 7.45 (d. $J = 1.9$ 8.7 Hz, 1H) 7.45 (d. $J = 1.9$ 8.7 Hz, 1H)
	(m, 2H), 7.80 (d, $J = 1.8$ Hz, 1H),
	IR (KBr) 3600-2800(br), 1509, 1496, 1481, 1462, 1447, 1383, 1907, 1159, 1951, 2011
	mp 138-139 °C
	¹ H NMR (CDCl ₃) δ 3.78 (s, 3H), 3.79 (s, 3H), 6.64 (dd. J = 0.9 2.7 Hz 1H) 6.80 (d 1 - 7.8 Hz 1H) 5.84 (d 1 - 7.8 Hz 1H)
I-763	1H), 7.09-7.21 (m, 3H), 7.25-7.27 (m, 1H), 7.32 (d. J = 8.7 Hz, 1H), 7.49 (dd. J = 1.9 9.4 u., 11), 7.55-7.57
	IR (KBr) 3600-2800(br), 1590, 1510, 1497, 1478, 1430, 1384, 1209, 1158, 1052, 1036,
j.764	¹ H NMR (CDCl ₃) δ 2.32 (s, 3H), 3.78 (s, 3H), 3.79 (s, 3H), 5.30 (s, 2H), 6.59 (d, J = 3.3 Hz, 1H), 6.94 (s, 1H), 7.04 (c, 1H)
	7.04-7.15 (m, 7H), 7.34 (d, J = 8.4 Hz, 1H), 7.41 (dd, J = 1.8, 8.7 Hz, 1H), 7.55-7.59 (m, 2H), 7.89-7.83 (m, 1H)
	IR (KBr) 3600-2800(br), 1516, 1497, 1482, 1466, 1382, 1306, 1219, 1909, 1159, 1052, 1057, 111)
	mp 134-136 °C
1.765	1H NMR (DMSO-de) 8 1.70 (s, 3H), 1.71 (s, 3H), 3.72-3.74 (m, 2H), 3.73 (s, 3H), 3.74 (s, 3H), 5.95 (h, 2, 1H), 5.25 (m, 2H), 3.75 (s, 3H), 5.95 (h, 2, 1H), 5.25 (m, 2H),
	1H), 6.66-6.72 (m, 1H), 6.78-6.83 (m, 1H), 6.92 (s, 3H), 6.95 (s, 3H), 7.19-7.29 (m, 9H), 7.30, 7.30 (m, 6.45, 7.30, 7.3
	IR (KBr) 3600-2800(br), 1624, 1610, 1526, 1494, 1461, 1382, 1255, 1208, 1175, 1120, 1054, 1031 cm. ¹
	110 4004 (2004 (2004 (2004)

	mp 166-168 °C
1.766	¹ H NMR (CDCl ₃) δ 2.40 (s, 3H), 3.77 (s, 6H), 4.82 (s, 1H), 6.71 (d, J = 2.4 Hz, 1H), 6.86.6 93 (m, 4H) 7.92.7.39 (m, 4H)
7.100	7.43-7.48 (m, 2H), 7.58-7.64 (m, 1H), 7.71-7.75 (m, 2H)
	IR (KBr) 3600-2800(br), 1611, 1524, 1492, 1382, 1336, 1265, 1209, 1162, 1090, 1053, 1030, 200.1
	mp 139-140 °C
1.767	1H NMR (CDCl ₃) δ 3.78 (s, 3H), 3.80 (s, 3H), 6.60-6.62 (m, 1H), 6.95 (s. 1H), 7.05 (s. 1H) m) 7.08.7 16 (m. 9H) 7.93.7 ac
	(m, 1H), 7.45 (d, $J = 1.2$ Hz, 2H), $7.54.7.61$ (m, 2H), 7.83 (d, $J = 0.6$ Hz, 1H) 8 18 (hr, a 1H)
	IR (KBr) 3600-2800(br), 1520, 1497, 1465, 1448, 1414, 1383, 1313, 1918, 1905, 1150, 1000,
	T 1 1/100 (III -)
1.768	8.4 & 2.1Hz, 1H), 7.02 (d, J = 8.4Hz, 1H). 7.08 (d, J = 2.1Hz, 1H) 7.35 7.50 (m. out) 9.25 (s, 111), 0.34 (d.d, J =
	IR (KBr) 3384, 1592, 1525, 1487, 1455, 1397, 1319, 1360, 1199, 1109, 1000, 100
	1H NMR (CDCI.) & 9.96 (2.94) 9.69 (2.91) 9.30 (2.31) 2.30 (2.31)
	2.20 (s, 3H), 2.20 (s, 3H), 3.13 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.15 (d, J =
692-1	8.4 Hz, 1H), 7.30 · 7.51 (m, 10H), 8.37 · 8.47 (m, 1H)
	IR (KBr)3384, 1704, 1590, 1524, 1481, 1389, 1357, 1272, 1240, 1174, 1114, 1089, 1017, 1017
	1 F (2 1 L) 7 1 L (1 1 L) 7 1 L (1 L)
0//-1	9.0 Hz, 1H), 7.24 - 7.33 (m, 2H), 7.35 - 7.50 (m, 3H), 8.37 - 8.50 (m, 1H)
	IR (KBr)3383, 1674, 1595, 1526, 1482, 1363, 1177, 1078, 1012cm.
	1H NMR (CDCl3) & 1.76 (s, 3H), 1.81 (s, 3H), 2.26 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.56 (s, 3H), 3.78 (c, 3H), 3.64 (s, 3H)
I-771	7.2 Hz, 2H), 5.44 - 5.53 (m, 1H), 6.84 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H). 7.30 - 7.53 (m, 5H), 8.38 - 8.47 (m, 1H)
	IR (KBr) 3376, 1697, 1594, 1524, 1481, 1365, 1270, 1939, 1177, 1119, 1079, 1013

	H NMR (CDCI.) & 9.96 (2.91), 9.98 (2.91), 9.98 (2.91)
I-772	7.12 - 7.50 (m, 9H), 8.35 - 8.44 (m, 1H)
	1R(KBr)3365, 1693, 1622, 1591, 1526, 1477, 1374, 1314, 1991, 1180, 1165, 1111, 1076,
	1H NMR (CDCl3) & 1.76 (s, 3H), 1.82 (s, 3H), 2.26 (s, 3H), 3.48 (s, 3H) 3.75 (s, 3H) 4.69 (d, 1 - 6.0 Hz, out) 5.45 (s, 2H)
1,773	(m, 1H), 5.71 (s, 1H), 5.86 (s, 1H), 6.44 (s, 1H), 6.87 - 7.00 (m, 2H), 7.05 (d, 1 = 1, 8, Hz, 1H), 7.93 - 7.53 (m, 2H), 7.00 (m, 2H), 7.05 (d, 1 = 1, 8, Hz, 1H), 7.93 - 7.53 (m, 2H), 6.87 - 7.00 (m, 2H), 7.05 (d, 1 = 1, 8, Hz, 1H), 7.93 - 7.53 (m, 2H), 6.85 (m, 2H),
	(m, 1H)
	IR (KBr) 1737, 1604, 1519, 1482, 1392, 1366, 1267, 1173, 1131, 1084, 1069, 1000cm, 1
	1H NMR (CDCl3) 6:2.25 (s, 3H), 2.38 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H) 5:10 (s, 2H) 5:19 (hrs, 1H) 5:00 (2, 1H) 5:00 (2, 1H) 5:00 (3,
1.774	, 6.94 (.d.d, J = 8.4 &1.8]
	(HI)
	IR (KBr) 1686, 1590, 1524, 1488, 1398, 1314, 1257, 1102, 1068, 1008 cm ⁻¹
	1H NMR (CDCl3) & 3.47 (s, 3H), 3.76 (s, 3H), 5.16 (s, 2H), 5.71 (s, 1H), 5.82 (s, 1H), 6.45 (s, 1H) 6.97 (d.d. 1 = 8.4.8.9 1Hz.
1.775	1H), 7.04 (d, J = 8.4Hz, 1H), 7.07 (d, J = 2.1Hz, 1H), 7.22 - 7.30 (m, 1H), 7.33 - 7.49 (m, 5H) 7.99 - 7.98 (m, 1H) 8.09 - 9.4
·	(m, 1H), 10.44 (s, 1H)
	IR (KBr) 3492,3459, 1692, 1605, 1518, 1486, 1388, 1294, 1238, 1200, 1115, 1100, 1070, 1008,1
	1H NMR (CDCl ₃) & 2.35 (d, J = 1.8Hz, 3H), 2.68 (s, 3H), 3.13 (s, 3H), 3.23 (s, 3H), 3.78 (s, 3H), 5.10 (s, 9H), 5.60 (s, 1H)
1.776	7.04 - 7.17 (m, 2H), 7.30 - 7.49 (m, 9H)
	IR (KBr) 1606, 1518, 1478, 1364, 1295, 1271, 1240, 1182, 1118, 1087, 1077, 1017cm.1
	3 53 (a 3H) 3 78 (c 2H) 4 641 1
I-777	6.6 Hz, 2H), 5.45 - 5.53 (m, 1H), 6.82 (s, 1H), 7.03 - 7.14 (m, 2H), 7.32 - 7.47 (m, 4H)
	IR (KBr) 1607, 1520, 1482, 1374, 1363, 1240, 1179, 1115, 1079cm.
	10100101

	¹ H NMR (CDCl ₃) & 2.35 (d, J = 1.2Hz, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.90 (s, 1H), 6.43 (s, 1H)
1.778	
	1R (KBr) 3536,3398, 1609, 1587, 1518, 1487, 1244, 1192, 1110, 1071, 1010cm.1
	1H NMR (CDCl ₃) & 1.76 (s, 3H), 1.82 (s, 3H), 2.35 (s, 3H), 3.45 (s, 3H), 3.74 (s, 3H), 4.61 (d, J = 6.9 Hz. 2H), 5.43.560 (m)
1.779	1H), 6.43 (s, 1H), 6.87 - 7.15 (m, 4H), 7.36 - 7.51 (m, 2H)
-	IR (KBr) 3512,3444, 1611, 1585, 1518, 1488, 1462, 1447, 1416, 1305, 1288, 1243, 1207.
	1112, 1103, 1070, 1012cm ⁻¹
	¹ H NMR (CDCl ₃) & 3.45 (s, 3H), 3.75 (s, 3H), 4.84 (s, 2H), 5.15 (s, 2H), 5.70 (s, 1H), 5.88 (s. 1H), 6.44 (s. 1H) 6.91.7.90 (m.
1.780	4H), 7.32 - 7.48 (m, 5H), 7.52 - 7.61 (m, 1H), 7.64 - 7.74 (m, 1H)
2	IR (KBr)3523,3428, 1610, 1587, 1516, 1482, 1463, 1400, 1321, 1285, 1238, 1187
	1106cm ⁻¹
	¹ H NMR (CDCl ₃) δ 2.68 (s, 3H), 3.13 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 5.44 (d.d. J = 18 & 0.6H ₂ , 1H) 5.90
1.781	(d.d, J = 18 & 0.9Hz, 1H), 6.84 (s, 1H), 6.86 · 6.98 (m, 1H), 7.09 · 7.18 (m, 2H), 7.31 · 7.52 (m, 8H), 7.71 (d.d. 1 = 7.9 & 9.4
	Hz, 1H)
	IR (KBr) 1608, 1518, 1479, 1365, 1235, 1177, 1118, 1079, 1013cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.59 (d, J = 6.3Hz, 3H), 2.68 (s, 3H), 3.13 (s, 3H), 3.55 (s, 3H), 3.78 (s. 3H), 5.19 (s. 2H), 5.21.5.30 (m.
1.782	1H), 6.84 (s, 1H), 7.08 - 7.17 (m, 3H), 7.32 - 7.56 (m, 7H), 7.69 - 7.75 (m, 1H)
	IR (KBr) 3543,3433, 1609, 1518, 1480, 1364, 1235, 1178, 1117, 1078, 1014cm ⁻¹
	¹ H NMR (CDCl ₃) & 1.59 (d, J = 6.0Hz, 3H), 2.01 (brs, 1H), 3.47 (s, 3H), 3.76 (s, 3H), 5.16 (s, 2H), 5.15 · 5.30 (m, 1H) 6.79
I-783	(s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.89 - 7.16 (m, 4H), 7.30 - 7.60 (m, 6H), 7.68 - 7.85 (m, 1H)
	IR(KBr)3467, 1613, 1586, 1517, 1484, 1455, 1421, 1395, 1287, 1238, 1111, 1070, 1010cm.

	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 3.23 (s, 3H), 3.81 (s, 6H), 4.64 (d, J = 6.6 Hz, 2H), 5.47 · 5.54 (m, 1H), 6.91 (s,
I-784	1H), 6.96 (s, 1H), 7.06 (d, J = 8.4 Hz, 1H), 7.49 (d.d, J = 8.4 & 2.1 Hz, 1H), 7.58 (d, J = 2.1 Hz, 1H), 7.60 - 7.74 (m, 4H)
i.	IR (KBr) 2228, 1610, 1490, 1348, 1295, 1266, 1209, 1174, 1112, 1056,
	1038, 1000cm ⁻¹
	mp169-170 ℃
I-785	¹ H NMR (CDCl ₃) δ 2.07 (s, 6H), 3.20 (s, 3H), 5.16 (s, 2H), 5.71 (brs, 1H), 6.97-7.45 (m. 14H)
	IR(KBr) 3357, 3023, 2933, 1698, 1516, 1478, 1362, 1260, 1227, 1159, 969, 969, 969, 200, 200, 200, 200, 200, 200, 200, 20
	mp169-170 °C
1.786	¹ H NMR (CDCl ₃) δ 2.13 (s, 6H), 3.11 (s, 3H), 3.18 (s, 3H), 5.18 (s, 2H), 7.09.7.47 (m, 12H), 7.64 (d. J = 9.0 H ² , 9H)
	IR(KBr) 3434, 3035, 2938, 1516, 1474, 1362, 1290, 1197, 1182, 1174, 1149, 1114, 973, 867, 949,
	mp156-157 °C
I-787	¹ H NMR (CDCl ₃) δ 2.08 (s, 6H), 3.12 (s, 3H), 3.21 (s, 3H), 5.18 (s, 2H), 7.12-7.58 (m. 14H)
	IR(KBr) 3494, 3292, 3033, 2934, 1753, 1712, 1517, 1478, 1358, 1294, 1261, 1173, 1151, 967, 870, 233, 1712, 1814, 1
	mp105-106 C
1.788	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.85 (s, 3H), 2.12 (s, 6H), 3.18 (s, 3H), 3.22 (s, 3H), 4.64 (d, J = 7.0 Hz, 2H), 5.62 (t, J = 6.9)
3	Hz, 1H), 7.08 (s, 1H), 7.16-7.38 (m, 6H), 7.64 (d, J = 8.8 Hz, 2H)
	IR(KBr) 3434, 2934, 1514, 1474 1362, 1285, 1152, 1113, 971, 916. 861. 845 cm ⁻¹
	mp148·149 C
1 780	¹ H NMR (CDCl ₃) § 2.12 (s, 6H), 2.39 (s, 3H), 3.10 (s, 3H), 3.18 (s, 3H), 5.13 (s, 2H) 7.10.7 38 (m, 11H) 7.64 (3, 1 - 0.6 Hz)
601-1	2H)
	IR(KBr) 3435, 3027, 2931, 1678, 1516, 1475, 1362, 1288, 1182, 1151, 1113, 969, 916, 861, cm. 1
	(100) 110, 200, 1111, 1011, 1

Table 156

	mp139-140 °C
1.790	1H NMR (CDCl ₃) & 1.76 (s, 3H), 1.82 (s, 3H), 2.14 (s, 6H), 2.46-2.58 (m, 2H), 3.14 (s, 3H), 3.19 (s, 3H) 4.07 (d, 1 = 7.0 Hz
2	2H), 5.16-5.23 (m, 1H), 7.05 (s, 1H), 7.14-7.41 (m, 6H), 7.66 (d, J = 8.4 Hz, 2H)
	IR(KBr) 3433, 2946, 1514, 1467, 1360, 1282, 1180, 1152, 1115, 868 cm ⁻¹
	mp123-124 ℃
	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.77 (s, 3H), 2.03 (s, 6H), 4.56 (d. $J = 6.6$ Hz 2H) 5.50 (t. $J = 6.0$ Hz 1H) 6.46 (4. $J = 6.0$ Hz 1H) 6.46 (1. $J = 6.0$ Hz 1H) 6.
1.791	9.6 Hz, 1H), 6.55 (s, 1H), 6.83 (d, $J = 8.4$ Hz, 2H), 6.98 (d, $J = 8.1$ Hz, 1H), 7.27 (g. 2H), 7.48 (d. $J = 5.6$ Hz, 9H), 9.00 $\rho_{\rm min}$
	1H), 9.48 (brs, 1H)
	1R(KBr) 3337, 2930, 1612, 1518, 1471, 1285, 1258, 1207, 1123, 999, 834 cm.1
	mp230-231 °C
	1H NMR (DMSO-d6) 8 2.04 (s, 6H), 2.33 (s, 3H), 5.09 (s, 2H), 6.50 (d, J = 8 4 Hz, 1H), 6.59 (s, 1H), 6.95 (d, 1 = 8 1 Hz, 1H)
I-792	7.04 (d, $J = 5.4$ Hz, 1H), 7.23 (d, $J = 7.5$ Hz, 2H), 7.29 (s. 1H). 7.41 (d. $J = 7.8$ Hz, 9H), 7.40 (d. $J = 9.7$ Hz, 9H), 7.40 (d. $J = 9.7$ Hz, 9H)
	IR(KBr) 3287, 1609, 1519, 1475, 1298, 1245, 1126, 1006, 841 cm ⁻¹
	mp118-119 C
	¹ H NMR (DMSO-d ₆) δ 1.64 (s, 3H), 1.70 (s, 3H), 2.03 (s, 6H), 2.42-2.50 (m, 2H), 3.96 (t. J = 6.9 Hz, 9H), 5.97 (t. J = 7.9 uz.
I-793	2H), 6.49 (d, $J = 8.1 \text{ Hz}$, 1H), 6.55 (s, 1H), 6.84 (d, $J = 8.4 \text{ Hz}$, 2H), 6.96 (d. $J = 8.1 \text{ Hz}$, 1H) 7.97 (s, 9H) 7.48 (d. $J = 8.1 \text{ Hz}$)
	2H), 8.89 (brs, 1H), 9.48 (brs, 1H)
	IR(KBr) 3392, 2928, 1610, 1519, 1466, 1250, 1230, 1205, 1178, 1128, 1031, 834, 808, 2003, 1610, 1519, 1466, 1250, 1205, 1178, 1128, 1031, 834, 808, 2003, 1610, 16
	mp139-140 °C
1.794	1H NMR (DMSO-d6) & 1.75 (s, 3H), 1.77 (s, 3H), 2.50 (s, 6H), 3.39 (s, 3H), 3.44 (s, 3H) 4 69 (d, 1 = 6.9 Hz, 9H) E 50 (c, 1 =
4	6.6 Hz, 1H), 7.29-7.33 (m, 3H), 7.41-7.47 (m, 4H), 7.59-7.68 (m, 2H)
	IR(KBr) 3433, 2933, 1675, 1516, 1473, 1366, 1358, 1292, 1259, 1182, 1172, 1151, 969, 873, 511.1
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

Table 157

	mp151-152 °C
1-795	¹ H NMR (DMSO-d ₆) δ 2.05 (s, 6H), 2.18 (s, 3H), 3.36 (s, 3h), 3.44 (s, 3H), 5.22 (s, 2H), 7.08-7.63 (m. 13H)
	IR(KBr) 3434, 3023, 2928, 1517, 1477, 1368, 1293, 1261, 1183, 1152, 966, 870 cm ⁻¹
· · · · · · · · · · · · · · · · · · ·	mp159:160 °C
1,706	¹ H NMR (DMSO-d ₆) δ 1.65 (s, 3H), 1.70 (s, 3H), 2.05 (s, 6H), 2.48-2.53 (m, 2H), 3.38 (s. 3H) 3.44 (s. 3H) 4.10 (t. J = 7.4)
2	Hz, 2H), 5.21-5.27 (m, 1H), 7.28-7.34 (m, 3H), 7.41-7.47 (m, 4H), 7.59-7.64 (m, 2H)
	IR(KBr) 3434, 2938, 1519, 1478, 1439, 1362, 1295, 1269, 1173, 1152, 1125, 960, 870, 839 cm. 1
	mp130-131 °C
1,707	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.75 (s, 3H), 2.02 (s, 6H), 4.59 (d, J = 6.4 Hz, 2H), 5.48 (t. J = 7.2 Hz, 1H), 6.81.7.07
	(m, 7H), 7.25 (s, 2H), 8.96 (brs, 1H), 9.41 (brs, 1H)
	IR(KBr) 3392, 1608, 1589, 1518, 1475, 1322, 1258, 1170, 1127, 974, 836, 808 cm ⁻¹
	mp143-144 °C
I.798	1H NMR (DMSO-d6) & 2.03 (s, 6H), 2.32 (s, 3H), 5.12 (s, 2H), 6.82-7.41 (m, 13H), 9.10 (brs. 1H), 9.41 (brs. 1H)
	IR(KBr) 3344, 1609, 1521, 1427, 1255, 1236, 1205, 1129, 998, 832, 806, 792, cm.1
	mp163-164 C
1,700	¹ H NMR (DMSO-d ₆) ô 1.87 (s, 3H), 1.90 (s, 3H), 3.42 (s, 3H), 5.15 (s, 2H), 6.88-7.03 (m. 4H), 7.24-7.58 (m. 9H), 7.97 (hm.
661-1	1H), 9.02 (brs, 1H)
	IR(KBr) 3563, 3476, 3001, 2922, 1698, 1527, 1512, 1476, 1359, 1303, 1261, 1237, 1210, 1195, 1167, 1146, 871, cm.1
	¹ H NMR (CDCl ₃) & 1.30 (d, J = 6.6Hz, 6H), 2.58 (s, 3H), 2.97 (quintet, J = 6.6Hz, 1H), 3.54 (s, 3H), -3.77 (s, 3H), 5.17 (s, 3H)
I-800	2H), 6.87 (s, 1H), 7.11 (d, J = 9.0 Hz, 1H), 7.22 · 7.35 (m, 8H), 7.47 · 7.68 (m. 6H), 8.19 · 8.25 (m, 2H)
	IR (KBr) 1737, 1604, 1519, 1482, 1392, 1366, 1267, 1173, 1131, 1084, 1069, 1000, 11
	(100 t) 100 t)

1-801	¹ H NMR (CDCl ₃) δ 2.56 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.17 (s, 2H), 5.69 (s, 1H), 6.84 (s, 1H), 6.91 (d.d, J = 8.4 & 1.8 Hz, 1H), 7.02 (d, J = 8.4 Hz, 1H), 7.04 (d, J = 1.8Hz, 1H), 7.04 - 7.14 (m, 1H), 7.33 - 7.47 (m, 8H) ¹ R(KBr)3446, 1613, 1585, 1522, 1477, 1396, 1357, 1291, 1243, 1204, 1174, 1076, 1017, 1006cm.
1.802	foam 1H NMR (CDCl ₃)
1.803	foam H NMR (CD3OD)
1.804	
1.805	mp 190-192°C 1H NMR (DMSO-d6) δ 2.88 (s, 3H), 3.41 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 5.43 (s, 2H), 7.08 (s, 1H), 7.16 (s, 7.91 (m, 2H)) \sim 7.91 (m, 2H) IR (Nujol) 1604, 1519, 1481, 1462, 1367, 1175, 1081, 1009, 878, 841, 816, 801

	foam
	1H NMR (CDCl.) & 3.45 (s, 3H), 3.74 (s, 3H), 5.31 (s, 2H), 6.94 (s, 1H), 6.45 (s, 1H), 6.64 (s, 1H), 6.93 (d, 1 - 9.7 Hz, 2H)
908-1	6.98 (dd, $J = 8.4$, 2.1 Hz, 1H), 7.09 (d, $J = 8.4$ Hz, 1H), 7.11 (d, $J = 2.1$ Hz, 1H), 7.46 \approx 7.50 (m, 3H), 7.52 (4.1 Le 2.11 e 2.1
	$7.78 \sim 7.82 \text{ (m, 211)}, 1.33 \text{ (u, 0} = 8.1 \text{ Hz, 2H)},$
	IR (Nujol) 3367, 1612, 1592, 1523, 1489, 1455, 1253, 1226, 1115, 1073, 1013, 949, 816, 767, 2011,
	¹ H NMR (CDCl ₃) & 2.76 (s, 3H), 3.21 (s, 3H), 3.30 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.38 (s, 9H), 6.64 (c, 1H), 7.61 (1, 1H)
1.807	8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.38 (dd, J = 8.4, 2.1 Hz, 1H), 7.45 (d. J = 2.1 Hz, 1H), 7.67 (d. J = 9.7 Hz, 1H), 7.67 (d. J = 9.1 Hz, 1H), 7.67 (d. J = 9.7 Hz, 1H), 7.7 (d. J
	1H)
	IR (Nujol) 1608, 1519, 1480, 1463, 1365, 1177, 1151, 1079, 971, 876, 798, cm. 1
	¹ H NMR (CDCl ₃) δ 2.64 (s, 3H), 2.74 (s, 3H), 3.21 (s, 3H), 3.30 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.98 (s, 9H), 6.84 (c, 1H)
1-808	7.21 (d, $J = 8.4$ Hz, 1H), 7.38 (d, $J = 8.7$ Hz, 2H), 7.38 (dd, $J = 8.4$ 2.1 Hz, 1H), 7.44 (d, $J = 9.1$ Hz, 1H), 7.69 (e, $J = 9.1$ Hz, 1H), $J = 9.1$ Hz,
	2H)
·	IR (Nujol) 1606, 1591, 1522, 1480, 1463, 1359, 1174, 1152, 1079, 1012, 946, 877, 824, 705, 2001.
	ı
	¹ H NMR (CDCl ₃) 6 1.42 (t, J = 7.5 Hz, 3H), 2.73 (s, 3H), 2.96 (g. J = 7.5 Hz, 2H), 3.91 (s, 3H), 3.21 (c, 3H), 3.52 (c, 3H)
I-809	3.78 (s, 3H), 5.28 (s, 2H), 6.84 (s, 1H), 7.21 (d, J = 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 9H), 7.38 (d, J = 8.7 Hz, 9Hz), 7.38 (
	(d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3434, 1609, 1579, 1519, 1481, 1365, 1177, 1151, 1080, 970, 976, 767, 1
	(100, 100, 100, 100, 1111, 100, 110, 100, 191 cm.)

	foam
	¹ H NMR (CDCl ₃) δ 2.71 (s, 3H), 3.21 (s, 3H), 3.35 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.38 (s, 2H), 6.84 (s, 1H), 7.25 (d, J =
1.810	8.4 Hz, 1H), 7.38 (d, $J = 8.7$ Hz, 2H), 7.40 (dd, $J = 8.4$, 2.1 Hz, 1H), 7.46 (d, $J = 2.1$ Hz, 1H), 7.54 \sim 7.64 (m, 3H), 7.68 (d, $J = 1.0$
	8.7 Hz, 2H), $8.12 \sim 8.16$ (m, 2H)
	IR (KBr) 3433, 1609, 1561, 1519, 1480, 1365, 1177, 1151, 1081, 971, 876, 798 cm ⁻¹
	foam
	¹ H NMR (CDCl ₃) δ 2.51 (s, 3H), 2.54 (s, 3H), 2.63 (s, 3H), 2.72 (s, 3H), 3.16 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H),
1.811	5.27 (s, 2H), 6.84 (s, 1H), 7.27 (d, J = 8.4 Hz, 1H), 7.36 (dd, J = 8.4, 2.1 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.41 (d. J = 2.1
	Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3435, 1614, 1519, 1480, 1364, 1177, 1151, 1080, 972, 876, 798 cm ⁻¹
	foam
	¹ H NMR (CDCl ₃) δ 2.74 (s, 6H), 3.17 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.35 (s, 2H), 6.84 (s, 1H), 7.28 (d, J =
I-812	8.4 Hz, 1H), 7.36 (dd, J = 8.4, 2.1 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H), 8.41 (d.
	J = 2.4 Hz, 1H), 8.50 (d, $J = 2.4 Hz$, 1H)
	IR (KBr) 3433, 1609, 1519, 1481, 1364, 1177, 1151, 1080, 971, 876, 798 cm ⁻¹
	foam
.1.813	¹ H NMR (DMSO-d ₆) δ 2.47 (s, 6H), 2.55 (s, 3H), 3.30 (s, 3H), 3.64 (s, 3H), 5.16 (s, 2H), 6.39 (s, 1H), 6.66 (dd, J = 8.4, 2.1
010-1	Hz, 1H), 6.76 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 7.03 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H).
	IR (KBr) 3399, 3165, 1611, 1521, 1488, 1406, 1362, 1213, 1114, 1069, 1014, 818, 759 cm. 1

Table 161

	mp 240-241°C
	¹ H NMR (DMSO-d ₆) δ 2.66 (s, 3H), 3.30 (s, 3H), 3.64 (s, 3H), 5.26 (s, 2H), 6.39 (s, 1H), 6.66 (dd, J = 8.4, 2.1 Hz, 1H), 6.77
1.814	(d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 7.02 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H), 8.48 (d, J = 2.7 Hz, 1H), 8.53 (d,
	J = 2.7 Hz, 1H
	IR (Nujol) 3513, 3491, 3070, 1610, 1581, 1523, 1488, 1459, 1408, 1275, 1236, 1216, 1111, 1065, 1040, 821, 785 cm ⁻¹
	mp 288-290°C (decomp.)
	¹ H NMR (DMSO-d ₆) δ 2.89 (s, 3H), 3.41 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 4.95 (s, 2H), 5.65 (s, 1H), 7.08 (s,
1.815	1H), 7.26 (d, J = 8.4 Hz, 1H), 7.33 (dd, J = 8.4, 2.1 Hz, 1H), 7.38 (d, J = 2.1 Hz, 1H), 7.49 (d, J = 8.7 Hz, 2H), 7.74 (d, J = 8.7
	Hz, 2H),
	IR (Nujol) 3120, 1712, 1671, 1604, 1516, 1480, 1462, 1364, 1172, 1078, 1015, 970, 874, 841, 796 cm ⁻¹
	mp 204-206°C
	¹ H NMR (DMSO-d ₆) δ 2.87 (s, 3H), 3.45 (s, 3H), 3.46 (s, 3H), 3.52 (s, 3H), 3.78 (s, 3H), 5.40 (s, 2H), 7.08 (s, 1H), 7.32 (dd,
1.816	J = 8.4, 2.1 Hz, 1H), 7.33 (d, J = 8.4 Hz, 1H), 7.39 (d, J = 2.1 Hz, 1H), 7.48 (d, J = 8.7 Hz, 2H), 7.71 (dd, J = 5.1, 1.2 Hz, 1H),
	7.74 (d, $J = 8.7$ Hz, 2H), 8.88 (d, $J = 5.1$ Hz, 1H), 9.21 (d, $J = 1.2$ Hz, 1H)
	IR (Nujol) 1608, 1586, 1557, 1521, 1480, 1464, 1360, 1352, 1176, 1156, 1078, 884, 835, 818, 799 cm ⁻¹
٠	foam
1 8 1 7	¹ H NMR (CDCl ₃) δ 2.20 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 6.45 (s, 1H), 6.92 (d, $J = 8.7 \text{Hz}$, 2H), 6.94 (dd, $J = 1.0 \text{Hz}$
110-1	1.8, 8.4 Hz, 1H), 6.98 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 1.8 Hz, 1H), 7.18 (m, 1H), 7.37 (t, J = 7.2 Hz, 1H), 7.53 (d, J = 8.7 Hz,
	2H), 7.55 (m, 2H)

	m.p 163-166 °C
-	¹ H NMR (CDCl ₃)
I-818	6.84 (s, 1H), 7.13 (d, J = 8.4 Hz, 1H), 7.33 (dd, J = 2.1, 8.4 Hz, 1H), 7.38 (d. J = 8.4 Hz, 1H), 7.38
	2H)
	IR (KBr) 1692, 1614, 1520, 1480, 1390, 1367, 1231, 1175, 1159, 1078, 976, 750, 1
	m.p 172 °C
<u>.</u>	¹ H NMR (CDCl ₃) & 2.77 (s, 3H), 3.05 (s, 3H), 3.16 (s, 3H), 3.22 (s, 3H), 3.36 (s, 3H), 3.79 (s, 2H), 5.10 (s, 2H)
I-819	6.85 (s, 1H), 7.14 (d, J = 8.4 Hz, 1H), 7.25 (d, J = 8.7 Hz, 2H), 7.35 (dd, J = 2.1 8.4 Hz, 1H), 7.30 (d. J = 8.7 Hz, 2H), 7.35 (dd, J = 2.1 8.4 Hz, 1H), 7.30 (d. J = 8.7 Hz, 2H), 7.35 (dd, J = 2.1 8.4 Hz, 1H), 7.30 (d. J = 8.7 Hz, 2H), 7.35 (dd, J = 2.1 8.4 Hz, 1H), 7.30 (d. J = 8.7 Hz, 2H), 7.35 (dd, J = 2.1 8.4 Hz, 1H), 7.30 (d. J = 8.7 Hz, 2H), 7.35 (dd, J = 2.1 8.4 Hz, 1H), 7.30 (d. J = 8.7 Hz, 2H), 7.35 (dd, J = 8.7
	J = 2.1, 1H), 7.47 (d, $J = 8.4$ Hz, 2H), 7.67 (d, $J = 8.7$ Hz, 2H)
	IR (KBr) 1608, 1519, 1480, 1361, 1175, 1154, 1079, 972, 876, 801, cm. 1
	mp 180-182 °C
1.890	1H NMR (CDCl ₃) δ 2.69 (s, 3H), 3.14 (s, 3H), 3.21 (s, 3H), 3.53 (s. 3H), 3.71 (d. 1 ≡ 0.9 Hz, 3H), 5.90 (s. 9H), 2.60 (s. 9Hz, 3H), 2.60 (s. 9Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3
070	Hz, 1H), 7.34-7.49 (m, 9H), 7.59 (dd, $J = 9.0$, 1.2 Hz, 2H)
	IR (KBr) 1518, 1469, 1357, 1179, 1151, 1038, 871, 821 cm ⁻¹
	mp 183-185 °C
1.89.1	¹ H NMR (CDCl ₃) δ 3.41 (s, 3H), 3.66 (d, J = 0.9 Hz, 3H), 4.91 (s. 1H). 5.17 (s. 2H). 5.69 (s. 1H). 5.70 (s. 1H). 5.00 (s. 6. 1H).
	2H), 6.97 (dd, $J = 8.4$, 2.0 Hz, 1H), 7.04 (d, $J = 8.4$ Hz, 1H), 7.10 (d, $J = 2.0$ Hz, 1H), 7.36.7 48 (m, 7H)
	IR (KBr) 3541, 3398, 1588, 1523, 1461, 1410, 1320, 1261, 1217, 1037, 836, 747, cm.1
	mp 108-110 °C
1.899	¹ H NMR (CDCl ₃) 6 2.69 (s, 3H), 3.13 (s, 3H), 3.45 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.66 (s, 9H), 4.76 (s, 9H), 7.10 (s, 2H)
	6.86 (s, 1H), 7.71 (d, $J = 8.4$ Hz, 1H), $7.33-7.48$ (m, 9H), 7.62 (d, $J = 8.4$ Hz, 2H)
	IR (KBr) 1482, 1390, 1307, 1276, 1177, 1083, 1053, 1013, 807, cm. 1
	(10.00) 10.00) 10.00)

	mp 192-194 °C
1 893	¹ H NMR (CDCl ₃) & 1.70 (br s, 1H), 2.69 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.78 (s, 2H), 5.19 (s, 2H) 6.87 (s
1-053	1H), 7.15 (d, J = 8.4 Hz, 1H), 7.35 (dd, J = 8.4, 2.3 Hz, 1H), 7.37-7.49 (m, 8H), 7.63 (d. J = 7.8 Hz, 2H)
	IR (KBr) 3554, 3434, 1522, 1481, 1389, 1364, 1277, 1234, 1174, 1085, 1012, 807 cm.
	mp 135-137 °C
	¹ H NMR (CDCl ₃) & 3.19 (s, 3H), 3.60 (s, 3H), 3.71 (s, 3H), 4.96 (s, 1H), 5.18 (s, 2H), 5.78 (s, 1H), 6.73 (s, 1H), 6.88 (dd] =
1-824	8.3, 2.1 Hz, 1H), 7.02 (d, J = 2.1 Hz, 1H), 7.08 (d, J = 8.3 Hz, 1H), 7.34 (d, J = 8.6 Hz, 2H), 7.41-7.47 (m. 5H), 7.63 (d. J = 8.6
	Hz, 2H)
	IR (KBr) 3479, 1473, 1347, 1149, 1010, 869, 803, 784, 747 cm ⁻¹
	mp 149-151 °C
1.895	¹ H NMR (CDCl ₃) δ 2.68 (s, 3H), 3.13 (s, 3H), 3.20 (s, 3H), 3.69 (s, 3H), 3.71 (s, 3H), 5.20 (s, 2H), 7.18 (d. J = 8.7 Hz, 1H)
070-1	7.21 (s, 1H), 7.35-7.50 (m, 9H), 7.63 (d, J = 8.1 Hz, 2H)
	IR (KBr) 1519,1469, 1353, 1173, 1149, 1050, 966, 873, 849, 810 cm ⁻¹
	mp 82-85 ℃
	¹ H NMR (CDCl ₃) & 1.78 (s, 3H), 1.82 (s, 3H), 2.70 (s, 3H), 3.20 (s, 3H), 3.25 (s, 3H), 3.69 (s, 3H), 3.70 (s, 3H), 4.65 (d, .1 =
1.826	6.9 Hz, 2H), 5.51 (t, J = 6.9 Hz, 1H), 7.11 (d, J = 8.8 Hz, 1H), 7.21 (e, 1H), 7.37 (d. J = 8.9 Hz, 2H), 7.38 (dd, J = 8 8 9 9 Hz, 1H)
	1H), 7.42 (d, $J = 2.2$ Hz, 1H), 7.63 (d, $J = 8.9$ Hz, 2H)
	IR (KBr) 1516, 1468, 1363, 1180, 1151, 1045, 967, 846, 788 cm ⁻¹
·	amorphous
	¹ H NMR (CDCl ₃) ô 1.77 (s, 3H), 1.83 (s, 3H), 3.58 (s, 3H), 3.70 (s, 3H), 4.64 (d, J = 6.7 Hz, 2H), 4.97 (s. 1H), 5.04 (s. 1H)
1-827	5.53 (t, J = 6.7 Hz, 1H), 5.81 (s, 1H), 6.73 (s, 1H), 6.87 (dd, J = 8.1, 2.0 Hz, 1H), 6.88 (d. J = 8.7 Hz, 2H), 6.99 (d. J = 2.0 Hz,
	1H), $7.00 (d, J = 8.1 Hz, 1H)$, $7.47 (d, J = 8.7 Hz, 2H)$
	IR (CHCl ₃) 3595, 3536, 1613, 1584, 1521, 1474, 1406, 1356, 1266, 1094, 1062, 1014, 973, 835, cm. 1

Table 164

	mp 161.162 °C
1 000	¹ H NMR (CDCl ₃) δ 3.58 (s, 3H), 3.71 (s, 3H), 4.85 (s, 1H), 4.93 (s, 1H), 5.18 (s, 2H), 5.78 (s, 1H), 6.73 (s, 1H), 6.87-6.92 (m)
070-1	3H), 7.02 (d, J = 1.8 Hz, 1H), 7.07 (d, J = 8.1 Hz, 1H), 7.37.7.51 (m, 7H)
	IR (KBr) 3510, 3442, 3326, 1523, 1485, 1453, 1395, 1239, 1061, 1003, 972, 836, 753 cm ⁻¹
	mp 85-87 °C
	¹ H NMR (CDCl ₃) δ 1.69 (s, 3H), 1.75 (s, 3H), 2.57 (q, J = 6.9 Hz, 2H), 2.70 (s, 3H), 3.20 (s, 3H), 3.24 (s, 3H), 3.69 (s, 3H)
I.829	3.69 (s, 3H), 4.09 (t, J = 6.9 Hz, 2H), 5.22 (t, J = 6.9 Hz, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.21 (s, 1H), 7.37-7.44 (m, 9H), 7.63 (d
	J = 8.4 Hz, 2H
	1R (KBr) 1519, 1468, 1362, 1179, 1150, 1046, 967, 865, 847 cm ⁻¹
	mp 160-162 ℃
1.830	¹ H NMR (CDCl ₃) δ 2.38 (s, 3H), 2.68 (s, 3H), 3.12 (s, 3H), 3.20 (s, 3H), 3.69 (s, 3H), 3.70 (s, 3H), 5.15 (s, 2H), 7.16-7.25 (m.
000.1	4H), 7.34-7.44 (m, 6H), 7.63 (d, J = 8.1 Hz, 2H)
	IR(KBr) 1519, 1469, 1365, 1173, 1149, 1049, 965, 873, 849, 808 cm ⁻¹
	amorphous
•	¹ H NMR (CDCl ₃) δ 1.69 (s, 3H), 1.76 (s, 3H), 2.55 (q, $J = 6.9$ Hz, 1H), 3.58 (s, 3H), 3.69 (s. 3H), 4.08 (t. $J = 6.9$ Hz, 2H)
1.831	4.98 (s, 1H), 5.18 (s, 1H), 5.23 (t, J = 6.9 Hz, 1H), 5.80 (s, 1H), 6.72 (s, 1H), 6.86-6.89 (m, 3H), 6.97-7.00 (m, 3H), 7.47 (d, J
	$= 8.4 \mathrm{Hz}, \mathrm{2H})$
	IR (KBr) 3595, 3538, 1521, 1471, 1265, 1173, 1095, 1063, 1015, 835 cm ⁻¹
	mp 200-201 °C
- -	¹ H NMR (CDCl ₃) δ 2.40 (s, 3H), 3.58 (s, 3H), 3.70 (s, 3H), 4.80 (s, 1H), 4.92 (s, 1H), 5.13 (s, 2H), 5.77 (s, 1H), 6.73 (g, 1H)
I-832	6.88 (dd, J = 8.1, 2.0 Hz, 1H), 6.89 (d, J = 8.4 Hz, 2H), 7.01 (d, J = 1.8 Hz, 1H), 7.07 (d, J = 8.4 Hz, 1H), 7.24 (d. J = 7.8 Hz
	2H), 7.35 (d, J = 7.8 Hz, 2H), 7.48 (d, J = 8.4 Hz, 2H),
	IR (KBr) 3419, 1610, 1523, 1485, 1393, 1243, 1065, 1004, 972, 833, 795 cm. ¹

Table 165

	mp141-142 C
1 833	¹ H NMR (CDCl ₃) δ 2.03 (s, 3H), 2.11 (s, 3H), 2.54 (s, 3H), 3.15 (s, 3H), 3.21 (s, 3H), 5.20 (s, 2H), 7.12-7.26 (m. 5H) 7.38-
1-000	7.50 (m, 8H)
	IR(KBr) 3435, 3033, 2938, 1518, 1470, 1364, 1178, 1149, 1109, 970, 871, 839 cm. ¹
	mp188-189 °C
	¹ H NMR (CDCl ₃) δ 3.49 (s, 3H), 3.72 (s, 3H), 5.15 (s, 2H), 5.68 (brs, 1H), 5.84 (brs, 1H), 6.42-6.56 (m. 3H), 6.98-7.08 (m.
I-834	3H), 7.23-7.31 (m, 3H), 7.23-7.31 (m, 2H), 7.38-7.45 (m, 4H)
	IR(KBr) 3420, 3328, 1627, 1584, 1523, 1489, 1460, 1412, 1316, 1288, 1249, 1172, 1128, 1115, 1068, 1000, 849, 812, 746
	cm.1
	mp180-181 ℃
1 025	¹ H NMR (CDCl ₃) δ 3.51 (s, 3H), 3.75 (s, 3H), 5.17 (s, 2H), 5.70 (brs, 1H), 5.77 (brs, 1H), 6.45 (s, 1H), 6.95-7 10 (m, 4H)
1.000	7.27-7.46 (m, 8H), 7.96 (brs, 1H))
	IR(KBr) 3422, 3358, 1706, 1602, 1489, 1454, 1410, 1289, 1253, 1203, 1180, 1125, 1101, 1071, 1015 cm ⁻¹
	mp148-149 C
1.836	¹ H NMR (DMSO-d ₆) δ 1.77 (s, 3H), 1.80 (s, 3H), 2.54 (s, 6H), 3.35 (s, 3H), 3.42 (s, 3H), 3.48 (s. 3H), 4.73 (d. J = 4.5 Hz)
000-1	2H), 5.50-5.53 (m, 1H), 7.30-7.54 (m, 8H)
	IR(KBr) 3495, 3293, 1754, 1712, 1516, 1359, 1359, 1243, 1175, 1147, 971. 866. 845 cm ⁻¹
	mp136-138 C
1.837	¹ H NMR (DMSO-d ₆) ô 2.32 (s, 3H), 2.50 (s, 6H), 3.31 (s, 3H), 3.35 (s, 3H), 3.44 (s, 3H), 5.23 (s, 2H), 7.21-7.47 (m, 12H)
	IR(KBr) 3495, 3292, 3028, 2934, 1754, 1710, 1516, 1357, 1176, 1147, 972, 868, 842 cm. 1
	110 210 (000) 210 (000)

	mp195-196 ℃
068.1	¹ H NMR (CDCl ₃) δ 1.44 (t, J = 7.2 Hz, 3H), 3.46 (s, 3H), 3.69 (s, 3H), 3.86 (s, 6H), 4.44(q. J = 7.0 Hz, 2H), 5.15 (s, 9H)
000-1	5.66 (brs, 1H), 5.72 (brs, 1H), 6.27 (s, 1H), 7.01 (s, 2H), 7.13 (s, 1H), 7.38-7.46 (m, 7H)
	1R(KBr) 3485, 2937, 1713, 1580, 1464, 1455, 1407, 1324, 1243, 1123, 1109, 1069, 1014, 763, cm. 1
	mp150-151 °C
1.839	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.76 (s, 3H), 1.88 (s, 3H), 1.90 (s, 3H), 4.55 (d, J = 5.8 Hz, 2H), 5.44.5 50 (m, 1H)
	6.80-6.97 (m, 8H), 7.81 (brs, 1H), 8.85 (brs, 1H), 9.38 (brs, 1H)
	IR(KBr) 3495, 3293, 1753, 1711, 1429, 1390, 1360, 1242, 1217, 1178, 1143, 781, 232, 1
	mp149-150 C
1 940	¹ H NMR (DMSO-d ₆) δ 1.71 (s, 3H), 1.75 (s, 3H), 2.00 (s, 6H), 2.59 (s. 3H), 4.57 (d. $J = 6.4$ Hz, $\rho = 9.4$) $\rho = 6.4$ (m. $\rho = 9.4$)
040-1	6.84-7.13 (m, 8H), 9.13 (brs, 1H), 9.50 (brs, 1H)
	IR(KBr) 3451, 2933, 1612, 1587, 1518, 1472, 1348, 1259, 1211, 1171, 1191, 1087, 969, 979, 935, 913, 2011
	mp203-204 C
1.841	¹ H NMR (DMSO-d ₆) δ 1.87 (s, 3H), 1.89 (s, 3H), 2.31 (s, 3H), 5.09 (s, 2H), 6.80-7.00 (m. 8H), 7.20 (d. $J = 7.8 \text{ H}^2$ 9H) 7.30
1101	(d, J = 7.8 Hz, 2H), 7.81 (brs, 1H), 8.97 (brs, 1H), 9.38 (brs, 1H)
,	IR(KBr) 3491, 3398, 2921, 1611, 1516, 1476, 1259, 1183, 1155, 996, 794 cm ⁻¹
	mp128-129 °C
1.842	¹ H NMR (DMSO-d ₆) δ 2.01 (s, 6H), 2.34 (s, 3H), 2.63 (s, 3H), 5.12 (s, 2H), 6.85-7.13 (m, 8H), 7.18 (d. J = 7.6 Hz, 2H), 7.36
2	(d, J = 7.6 Hz, 2H), 9.15 (brs, 1H), 9.55 (brs, 1H)
	IR(KBr) 3432, 3305, 1735, 1607, 1523, 1482, 1398, 1360, 1294, 1284, 1179, 1080, 816, cm. 1
	, 200, 100, 110, 100, 100, 100, 100, 100

	III NMR (CDCI)
I-843	(brs, 1H)
	IR(KBr) 3432, 3305, 1735, 1607, 1523, 1482, 1398, 1360, 1294, 1284, 1179, 1080, 816, cm. 1
	mp109-110 °C
1-844	3H), 3.24 (s, 3H), 3.47 (s, 3H), 3.66 (s, 3H), 3.79 (s, 6H), 4.38 (z, 1
	w
	IR(KBr) 3432, 2940, 1716, 1579, 1465, 1407, 1366, 1322, 1240, 1179, 1123, 1078, 815, 796, cm.1
	mp 113-115 °C
I-845	¹ H NMR (CDCl ₃) δ 2.25 (s, 3H), 2.27 (s, 3H), 3.20 (s, 3H), 5.20 (s. 2H), 7.03.7 15 (m. 5H), 7.33.7 51 (m. 6H)
	IR (CHCl ₃) 2925, 1618, 1580, 1521, 1455, 1373, 1314, 1299, 1268, 1174, 1149, 1196, 1018, 970, 974,
	mp 155-157 °C
I-846	¹ H NMR (CDCl ₃) δ 2.26 (s, 6H), 4.69 (s, 1H), 5.19 (s, 2H), 6.87-6.90 (m. 2H) 7.03-7 15 (m. 5H) 7.99-7 50 (m. 7H)
	IR (CHCl ₃) 3596, 2952, 2924, 1612, 1582, 1523, 1490, 1455, 1425, 1383, 1259, 1171, 1195, 1019, 956, 877,
	mp 81-84 °C
	¹ H NMR (CDCl ₃) δ 1.07-1.14 (m, 6H), 2.55-2.66 (m, 4H), 4.73 (s, 1H), 5.16 (s. 2H), 5.70 (s. 1H), 6.82-6.91 (m. 2H), 6.90
I-847	6.99 (m, 2H), 7.10-7.12 (d, J = 4.2 Hz, 2H), 7.22-7.25 (m, 2H), 7.38-7.49 (m. 5H)
	IR (CHCl ₃) 3596, 3542, 2968, 2932, 2872, 1731, 1611, 1588, 1520, 1489, 1455, 1380, 1397, 1989, 1956, 1171, 1186, 151,
	903, 878, 836 cm ⁻¹
	mp 125-127 ℃
1.848	1H NMR (CDCl3) 8 1.77 (s, 3H), 1.82 (s, 3H), 2.26 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H) 4 63.4 65 (d, 1 = 6 0 Hz, 2H) 5 5 (m)
	1H), 7.02-7.13 (m, 5H), 7.31-7.43 (m, 4H)
	IR (CHCl ₃) 2924, 1619, 1578, 1488, 1373, 1298, 1266, 1174, 1149, 1125, 970, 874 cm ⁻¹
	TIO TOO (OLD TITE) OF THE OTHER

1-840 1-840 1-840 1-840 1-840 1-850-2034, 1614, 1517, 1487, 1371, 1331, 1289, 1263, 1173, 1149, 1111, 970, 938, 872 cm ⁻¹ 1-850 1-8		mp 141-143 C
	1.849	¹ H NMR (CDCL ₃) δ 1.07-1.14 (m, 6H), 2.53-2.65 (m, 4H), 3.12 (s, 3H), 3.20 (s, 3H), 5.18 (s, 2H), 7.10-7 14 (m, 3H), 7.94
	3 -	7.27 (m, 2H), 7.33-7.50 (m, 9H)
		IR (CHCl3) 2969, 2934, 1614, 1517, 1487, 1371, 1331, 1289, 1263, 1173, 1149, 1111, 970, 938, 873, 200.
		mp 90-91 °C
	1-850	¹ H NMR (CDCl ₃) δ 2.13 (s, 3H), 2.29 (s, 3H), 2.35 (s, 3H), 3.16 (s, 3H), 5.21 (s, 2H), 6.87-6.90 (m. 2H), 7.09-7 49 (m. 11H)
		IR (CHCl3) 3596, 1731, 1613, 1520, 1478, 1362, 1261, 1173, 1119, 1086, 1035, 673, 673, 673, 673, 673, 673, 673, 673
	1,851	¹ H NMR (CDCl ₃) & 1.76-1.77 (d, J = 0.3 Hz, 3H), 1.81-1.82 (d, J = 0.9 Hz. 3H), 2.26 (s. 3H), 9.27 (s. 3H), 4.69 A.64 (3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
IR (CHCl ₃) 3596, 2923, 1675 mp 106-108 °C ¹ H NMR (CDCl ₃) δ 2.63 (s, 7.50 (m, 7H), 7.56-7.64 (m, 2] IR (KBr) 2935, 1604, 1523, 1 mp 136-138 °C ¹ H NMR (CDCl ₃) δ 1.77 (s, ¹ H), 6.84 (s, 1H), 7.10-7.19 (n IR (KBr) 2936, 1604, 1523, 1	100-1	6.9 Hz, 2H), 4.71 (s, 1H), 5.56 (m, 1H), 6.87-6.91 (m, 2H), 7.00-7.13 (m, 5H), 7.83-7.97 (m, 9H)
mp 106-108 °C 1H NMR (CDCl ₃) ° 2.63 (s, 7.50 (m, 7H), 7.56-7.64 (m, 2) IR (KBr) 2935, 1604, 1523, 1 mp 136-138 °C 1H NMR (CDCl ₃) ° 1.77 (s, 1H), 6.84 (s, 1H), 7.10-7.19 (n) IR (KBr) 2936, 1604, 1523, 1-		IR (CHCl ₃) 3596, 2923, 1675, 1613, 1579, 1523, 1490, 1386, 1997, 1171, 1194, 996, 955, 977, 956, 1
¹ H NMR (CDCl ₃) δ 2.63 (s, 7.50 (m, 7H), 7.56-7.64 (m, 2) IR (KBr) 2935, 1604, 1523, 1 mp 136-138 ℃ ¹ H NMR (CDCl ₃) δ 1.77 (s, 1H), 6.84 (s, 1H), 7.10-7.19 (n) IR (KBr) 2936, 1604, 1523, 1.		
7.50 (m, 7H), 7.56-7.64 (m, 2) IR (KBr) 2935, 1604, 1523, 1 mp 136-138 °C 'H NMR (CDCl ₃) ° 1.77 (s, 1H), 6.84 (s, 1H), 7.10-7.19 (n) IR (KBr) 2936, 1604, 1523, 1-	1.859	¹ H NMR (CDCl ₃) δ 2.63 (s, 3H), 3.52 (s, 3H), 3.77 (s, 3H), 5.24 (s, 2H), 6.84 (s, 1H) 6.84 (s, 1H) 7 19.7 20 (m, 2H), 7.55
IR (KBr) 2935, 1604, 1523, 1 mp 136-138 °C 'H NMR (CDCl ₃)	700	7.50 (m, 7H), 7.56-7.64 (m, 2H)
mp 136-138 °C ¹ H NMR (CDCl ₃) δ 1.77 (s, ¹ H), 6.84 (s, 1H), 7.10-7.19 (n IR (KBr) 2936, 1604, 1523, 1-		IR (KBr) 2935, 1604, 1523, 1483, 1373, 1232, 1086, 1011, 045, 947, 798, 502, 203, 304, 305, 204, 305, 305, 305, 305, 305, 305, 305, 305
¹ H NMR (CDCl ₃) δ 1.77 (s, 1H), 6.84 (s, 1H), 7.10-7.19 (n IR (KBr) 2936, 1604, 1523, 1-		mp 136-138 °C
1H), 6.84 (s, 1H), 7.10-7.19 (n IR (KBr) 2936, 1604, 1523, 1-	1.853	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.81 (s, 3H), 2.67 (e, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.67 (d, 3 = 6.9 Hz, 2H), 2.47 g = 2.2 g
IR (KBr) 2936, 1604, 1523, 1484, 1435, 1373, 1225, 1086, 1011, 943, 848, 783, 606	3	1H), 6.84 (6, 1H), 7.10-7.19 (m, 3H), 7.31 (d, J = 2.1 Hz, 1H), 7.38 (dd, J = 2.1, 8.1 Hz, 1H), 7.57-7.64 (m, 9H)
, 1011, 010, 010, 000,		IR (KBr) 2936, 1604, 1523, 1484, 1435, 1373, 1225, 1086, 1011, 943, 848, 783, 606, 508 cm.

Table 169

<u>.</u>	mp 128-130 ℃
	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.81 (s, 3H), 2.62 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 4.63-4.67 (m. 2H), 5.45-5.53 (m. 1H)
I-854	6.86 (s, 1H), 7.01 (dd, J = 2.1 Hz, 8.4 Hz, 1H), 7.10 (d, J = 1.8 Hz, 1H), 7.13-7.20 (m, 2H), 7.29 (d, J = 8.4 Hz, 1H), 7.59-7.64
	(m, 2H)
	IR (KBr) 2940, 1600, 1518, 1484, 1418, 1366, 1232, 1080, 984, 893, 838, 812, 621, 524 cm ⁻¹
	mp 141-143 C
,	¹ H NMR (CDC) ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.61 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.47.5 53 (m)
1-855	1H), 5.70 (s, 1H), 6.83 (s, 1H), 6.91 (dd, J = 2.1, 8.1 Hz, 1H), 6.96 (d, J = 8.1 Hz, 1H), 7.02 (d, J = 2.1 Hz, 1H), 7.10, 7.1
	2H), 7.59-7.64 (m, 2H)
	IR (KBr) 3531, 2931, 1604, 1520, 1484, 1372, 1233, 1175, 1083, 1011, 814, 800, 781, 797, 596, cm. 1
	mp 217-220 °C
1 856	¹ H NMR (CDCl ₃) δ 2.75 (s, 3H), 3.51 (s, 3H), 3.78 (s, 3H), 5.78 (s, 1H), 6.85 (s. 1H), 7.03 (dd, J = 1.8, 8.4 H ² , 1H), 7.11
000-1	7.20 (m, 3H), 7.32 (d, J = 8.4 Hz, 1H), 7.58-7.63 (m, 2H)
·	IR (KBr) 3434, 2941, 1611, 1487, 1423, 1363, 1209, 1076, 891, 818, 621, 573, 513 cm.1
	mp 183.185 °C
1.857	¹ H NMR (CDCl ₃) & 1.92 (s, 3H), 3.20 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 3.93 (s, 3H), 4.31 (s, 4H), 6.79.6 83 (m, 9H), 6.90
	6.94 (m, 2H), 7.16-7.41 (m, 12H), 7.66-7.71 (m, 2H),
	IR (KBr) 3030, 2936, 1604, 1517, 1482, 1362, 1232, 1232, 1180, 1120, 1082, 877, 799, 701, 526, cm. 1
	mp 192-194 °C
1.858	¹ H NMR (CDCl ₃) δ 2.57 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 3.87 (s, 3H), 6.77.6 89 (m, 4H), 7.34-7.40 (m, 9H)
3	7.67-7.72 (m, 2H)
	IR (KBr) 3451, 3368, 2937, 1622, 1524, 1481, 1359, 1174, 1149, 1086, 962, 869, 802, 525 cm.1
	1, 200, 000, 000, 000, 000

	mp 210-212 ℃
	¹ H NMR (CDCl ₃) δ 1.92 (s, 3H), 2.23 (s, 3H), 3.46 (s, 3H), 3.74 (s, 3H), 3.89 (s, 3H), 5.24 (s, 1H), 5.80 (s, 1H), 5.94 (s, 1H)
1.859	6.46 (s, 1H), 6.90-6.96 (m, 1H), 7.01 (d, J = 1.8 Hz, 1H), 7.08 (dd, J = 1.8, 8.1 Hz, 1H), 7.50-7.55 (m, 2H), 7.76 (s. 1H), 8.52
	(d, J = 8.1 Hz, 1H),
	IR (KBr) 3420, 2938, 1636, 1610, 1526, 1496, 1398, 1225, 1164, 1073, 1026, 831 cm ⁻¹
	mp 183·185 °C
1.860	¹ H NMR (DMSO-d ₆) δ 2.43 (s, 6H), 2.45 (s, 6H), 5.13 (s, 2H), 6.76-6.82 (m, 4H), 6.91 (dd, J = 2.1, 8.4 Hz. 1H). 7.01 (d. J =
1.000	8.4 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.31-7.43 (m, 5H), 7.48-7.53 (m, 2H), 9.02 (br s, 1H), 9.32 (br s, 1H)
	IR (KBr) 3600-2800(br), 1609, 1581, 1521, 1493, 1455, 1437, 1384, 1321, 1275, 1215, 1193, 1149, 1007, 2001.
	mp 172-174 °C
1.861	¹ H NMR (CDCl ₃) δ 2.50 (s, 6H), 2.53 (s, 6H), 3.11 (s, 3H), 3.19 (s, 3H), 5.18 (s, 2H), 6.89 (s, 1H), 6.93 (s, 1H), 7.12 (d, J =
100-1	8.4 Hz, 1H), 7.30-7.54 (m, 8H), 7.66-7.71 (m, 2H), 7.73 (d, J = 2.1 Hz, 1H)
	IR (KBr) 3600-2800(br), 1613, 1518, 1491, 1455, 1361, 1348, 1276, 1178, 1159, 1109, 970, cm. 1
•	
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.51 (s, 6H), 2.53 (s, 6H), 3.19 (s, 3H), 3.22 (s, 3H), 4.63 (d, J = 7.2 Hz. 2H).
I-862	5.49-5.53 (m, 1H), 6.89 (s, 1H), 6.93 (s, 1H), 7.05 (d, J = 9.0 Hz, 1H), 7.26-7.35 (m. 2H). 7.51 (dd, J = 1,8,8,1 Hz, 1H), 7.67.
	7.70 (m, 3H)
	IR (KBr) 3600-2800(br), 1519, 1491, 1363, 1331, 1291, 1257, 1175, 1147, 1105, 1013, 980, 966 cm ⁻¹
	mp 150-152 °C
1.863	1H NMR (DMSO-d6) δ 1.72 (s, 3H), 1.76 (s, 3H), 2.43 (s, 6H), 2.45 (e, 6H), 4.55 (d, J = 6.6 Hz. 2H), 5.47.5.51 (m. 1H)
	6.78-6.83 (m, 4H), 6.90-7.06 (m, 3H), 7.38-7.42 (m, 2H), 8.87 (br s, 1H), 9.39 (br s, 1H)
	IR (KBr) 3600-2800(br), 1610, 1585, 1522, 1495, 1476, 1448, 1385, 1292, 1275, 1199, 1171, 1136, 985, 948 cm. 1
	1110 (100) (1011) (1111) (1011) (1111) (1111) (1111)

Table 171

I-864	¹ H NMR (DMSO-d ₆) δ 2.44 (s, 12H), 5.13 (s, 4H), 6.77 (s, 2H), 6.90-7.09 (m, 8H), 7.33-7.52 (m, 8H), 9.01 (s, 2H)
I	
	IR (KBr) 3600-2800(br), 1582, 1518, 1491, 1454, 1384, 1328, 1270, 1242, 1191, 1141, 1123, 1046, 1006 cm ⁻¹
1	mp 175-177 °C
	¹ H NMR (CDCl ₃) δ 2.52 (s, 12H), 3.11 (s, 6H), 5.17 (s, 4H), 6.91 (s, 2H), 7.11 (d, J = 8.4 Hz, 2H), 7.36-7.52 (m, 12H), 7.72
)	(d, J = 2.1 Hz, 2H)
	IR (KBr) 3600-2800(br), 1612, 1520, 1496, 1455, 1364, 1348, 1265, 1184, 1164, 1117, 1005, 971 cm ⁻¹
	mp 180-182 °C
1 000	¹ H NMR (CDCl ₃) δ 1.77 (s, 6H), 1.81 (s, 6H), 2.52 (s, 12H), 3.22 (s, 6H), 4.63 (d, J = 6.9 Hz, 2H), 5.49-5.54 (m, 2H), 6.90
	(s, 2H), 7.04 (d, J = 8.4 Hz, 2H), 7.50 (dd, J = 2.1, 8.4 Hz, 2H), 7.04 (d, J = 2.1 Hz, 2H)
	IR (KBr) 3600-2800(br), 1520, 1494, 1365, 1274, 1186, 1161, 1113, 996, 973 cm ⁻¹
	mp 165-168 ℃
1 200 1	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 6H), 1.76 (s, 6H), 2.45 (s, 12H), 4.55 (d, J = 6.0 Hz, 4H), 5.45-5.55 (m, 2H), 6.77 (s, 2H),
	6.89-6.98 (m, 4H), 7.03-7.07 (m, 2H), 8.86 (br s, 2H)
	IR (KBr) 3600-2800(br), 1579, 1519, 1497, 1476, 1456, 1384, 1277, 1238, 1195, 1142, 1126, 1050, 994 cm ⁻¹
	mp 76-78 ℃
8981	¹ H NMR (CDCl ₃) δ 3.47 (s, 3H), 3.75 (s, 3H), 3.94 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.69 (s, 1H), 5.92 (s, 1H), 6.46 (s, 1H),
	6.93.7.15 (m, 5H), 7.22 (d, J = 1.5 Hz, 1H), 7.34.7.49 (m, 5H)
	IR (CHCl ₃) 3528, 1586, 1520, 1489, 1461, 1399, 1287, 1260, 1110, 1070, 1010, 907, 819 cm ⁻¹
	mp 140-142 ℃
1 960	¹ H NMR (CDCl ₃) δ 2.65 (s, 3H), 3.13 (s, 3H), 3.25 (s, 3H), 3.57 (s, 3H), 3.78 (s, 3H), 3.94 (s, 3H), 5.19 (s, 2H), 6.85 (s, 1H),
	7.13·7.19 (m, 2H), 7.30·7.50 (m, 9H)
	IR (CHCl ₃) 1598, 1516, 1480, 1367, 1266, 1176, 1115, 1081, 1012, 969, 918, 867, 808 cm ⁻¹

	mp 189-190 °C
	¹ H NMR (CDCl ₃) δ 1.76 (d, J = 0.9 Hz, 3H), 1.81 (s, 3H), 2.69 (s, 3H), 3.24 (s, 3H), 3.25 (s, 3H), 3.58 (s, 3H), 3.78 (s, 3H),
1.870	3.94 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.49 (m, 1H), 6.85 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.17 (d.d, J = 2.1, 8.4 Hz, 1H)
	7.30-7.42 (m, 4H)
	IR (CHCl ₃) 2932, 1599, 1516, 1480, 1367, 1329, 1266, 1177, 1115, 1082, 1032, 1013, 970, 907, 868, 807 cm ⁻¹
	mp 187.190 ℃
1 971	¹ H NMR (CDCl ₃) δ 2.38 (s, 3H), 2.64 (s, 3H), 3.13 (s, 3H), 3.25 (s, 3H), 3.58 (s, 3H), 3.78 (s, 3H), 3.94 (s, 3H), 5.14 (s, 2H)
1.0/1	6.84 (s, 1H), 7.13-7.24 (m, 4H), 7.30-7.42 (m, 6H)
	IR (CHCl ₃) 2966, 1598, 1517, 1480, 1462, 1368, 1329, 1267, 1177, 1116, 1082, 1032, 970, 907, 867, 808, cm ⁻¹
	mp 192-194 C
	¹ H NMR (CDCl ₃) δ 1.15 (t, J = 6.9 Hz, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 2.59 (s, 3H), 3.69 (q, J = 6.9 Hz, 2H), 3.77 (s, 3H)
I-872	4.61 (d, J = 6.9 Hz, 2H), 4.99 (s, 1H), 5.50 (m, 1H), 5.70 (s, 1H), 6.84 (s, 1H), 6.88-6.97 (m, 3H), 7.02 (d. J = 1.8 Hz, 1H)
	7.52-7.58 (m, 2H)
	IR (CHCl ₃) 3536, 2934, 1609, 1520, 1482, 1410, 1365, 1279, 1243, 1172, 1128, 1080, 1029, 972, 952, 872, 833, 812 cm ⁻¹
	1H NMR (CDCl ₃) & 3.46 (s, 3H), 3.70 (s, 2H), 3.74 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 5.67 (s, 1H), 5.90 (s, 1H), 6.47 (s, 1H),
I-873	6.96 (d.d, J = 8.4 & 1.8 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 1.8 Hz, 1H), 7.33 - 7.44 (m, 7H), 7.61 (d. J = 8.4 Hz, 2H)
	IR (KBr) 3536,3389, 1732, 1587, 1519, 1487, 1438, 1393, 1249, 1217, 1166, 1110, 1069,1001cm ⁻¹
	¹ H NMR (CDCl ₃) δ 3.46 (s, 3H), 3.74 (s, 5H), 5.15 (s, 2H), 5.68 (s, 1H), 5.91 (s, 1H), 6.47 (s, 1H), 6.96 (d.d, J = 8.4 & 1.8 Hz,
I-874	1H), 7.03 (.d, $J = 8.4$ Hz, 1H), 7.09 (.d, $J = 8.4$ Hz, 1H), $7.32 \cdot 7.49$ (m, 7H), 7.62 (d, $J = 8.1$ Hz, 2H)
	IR (KBr) 3381, 1715, 1698, 1608, 1581, 1523, 1485, 1455, 1396, 1294, 1235, 1112, 1072, 1017cm
	1H NMR (CDCl ₃) δ 2.69 (s, 3H), 3.13 (s, 3H), 3.54 (s, 3H), 3.70 (s, 2H), 3.74 (s, 3H), 3.77 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H),
I-875	7.15 (d, J = 8.7 Hz, 1H), 7.30 - 7.40 (m, 9H), 7.59 (.d, J = 8.1 Hz, 2H)
	IR (KBr) 1734, 1721, 1606, 1481, 1398, 1361, 1244, 1175, 1120, 1078, 1010cm ⁻¹

	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.73 (s, 3H), 3.23 (s,3H), 3.54 (s, 3H), 3.70 (s, 2H), 3.74 (s, 3H), 3.77 (s, 3H),
	4.64 (d, J = 6.9Hz, 2H), 5.46 · 5.55 (m, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4Hz, 1H), 7.35 (d.d, J = 8.4 & 2.1Hz, 1H), 7.37
1.876	
	1H NMR (CDCl ₃) δ
	IR (KBr) 3447, 1735, 1608, 1522, 1482, 1365, 1177, 1117, 1078, 1013cm ⁻¹
1 877	¹ H NMR (CDCl ₃) & 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.74 (s, 5H), 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.46 - 5.58 (m. 1H).
70-1	5.69 (s, 1H), 5.89 (s, 1H), 6.47 (s, 1H), 6.96 (s, 2H), 7.06 (s, 1H), 7.38 (d, J = 8.4Hz, 2H), 7.62 (d, J = 8.4Hz, 2H)
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.70 (s, 2H), 3.74 (s, 6H), 4.62 (d, J = 6.9 Hz, 2H), 5.46 - 5.58 (m,
I-878	1H), 5.68 (s, 1H), 5.88 (s, 1H), 6.47 (s, 1H), 6.96 (s, 2H), 7.06 (s, 1H), 7.37 (d, J = 8.4 Hz, 2H), 7.61 (d, J = 8.4 Hz, 2H)
	IR (KBr) 3527,3386, 1734, 1609, 1586, 1520, 1487, 1439, 1396, 1219, 1167, 1111, 1068, 1010 cm-1
	mp 136-139 °C
	¹ H NMR (CDCl ₃) δ 1.7 (br s, 1H), 1.76 (s, 3H), 1.81 (s, 3H), 2.73 (s, 3H), 3.23 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.64 (d, J =
I-879	6.7 Hz, 2H), 4.78 (s, 2H), 5.49 (t, J = 6.8 Hz, 1H), 6.87 (s, 1H), 7.09 (d, J = 8.6 Hz, 1H), 7.35 (dd, J = 8.6, 2.1 Hz, 1H), 7.40 (d.
	J = 2.1 Hz, 1H), 7.47 (d, $J = 8.1 Hz$, 2H), 7.64 (d, $J = 8.1 Hz$, 2H)
	IR (KBr) 3553, 3434, 1481, 1389, 1363, 1235, 1175, 1084, 1011, 972, 806 cm ⁻¹
	mp 180·181 ℃
	¹ H NMR (CDCl ₃) δ 1.70 (br s, 1H), 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 4.62 (d, J = 6.9 Hz. 2H), 4.77 (s)
I-880	2H), 5.53 (t, J = 6.9 Hz, 1H), 5.69 (s, 1H), 5.89 (s, 1H), 6.47 (s, 1H), 6.94-6.96 (m, 2H), 7.05-7.07 (m. 1H). 7.46 (d] = 8.1 Hz
	2H), 7.65 (d, $J = 8.4$ Hz, 2H)
	IR (KBr) 3509, 3367, 1522, 1487, 1461, 1396, 1289, 1213, 1116, 1071, 1009, 992, 942, 797, 782 cm.1

Table 174

	mp 122-123 °C
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.34 (t, $J = 6.5$ Hz, 1H), 3.22 (s, 3H), 3.45 (s, 3H), 3.73 (s, 3H), 4.5 (m. 2H).
1.881	4.64 (d, J = 6.6 Hz, 2H), 5.56 (t, J = 6.6 Hz, 1H), 6.84 (s, 1H), 6.99-7.10 (m, 3H), 7.39 (d, J = 8.7 Hz, 2H), 7.71 (d. J = 8.7 Hz, J = 8.
	2H)
	IR (KBr) 3579, 1518, 1471, 1360, 1261, 1230, 1148, 1019, 966, 881, 843 cm ⁻¹
	mp 156-158 °C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.49 (t, $J = 6.6 \text{ Hz}$, 1H), 3.44 (s, 3H), 3.72 (s. 3H), 4.49 (br s. 2H), 4.63 (d. $J = 1.10 \text{ Mz}$
I-882	6.7 Hz, 2H), 5.04 (s, 1H), 5.55 (t, J = 6.7 Hz, 1H), 6.85 (s, 1H), 6.92 (d, J = 8.9 Hz, 2H), 6.98-7.10 (m, 3H), 7.53 (d, J = 8.9 Hz, 2H), 6.98-7.10 (m, 3H), 7.53 (d, J = 8.9 Hz, 2H), 7.53 (d, J = 8.9 Hz, 2H), 6.95 (d, J = 8.9 Hz), 6
	2H)
	IR (KBr) 3433, 3234, 1609, 1520, 1472, 1266, 1227, 994, 836 cm ⁻¹
-	mp 168-170 °C
1 883	¹ H NMR (CDCl ₃) δ 2.50 (t, J = 6.5 Hz, 1H), 3.44 (s, 3H), 3.73 (s, 3H), 4.49 (br s, 2H), 4.78 (d, J = 6.1 Hz, 2H), 5.06 (s. 1H)
3 00-1	6.24 (t, $J = 6.1$ Hz, 1H), 6.85 (s, 1H), 6.93 (d, $J = 8.6$ Hz, 2H), $6.97.7.13$ (m, 3H), 7.53 (d, $J = 8.6$ Hz, 2H)
	IR (KBr) 3544, 3412, 3267, 1613, 1521, 1475, 1263, 1229, 1011, 884, 816 cm ⁻¹
	mp153-154 C
1.884	¹ H NMR (CDCl ₃) δ 3.49 (s, 3H), 3.77 (s, 3H), 5.17 (s, 2H), 5.76 (brs, 2H), 6.45 (s, 1H), 6.91-7.07 (m, 3H), 7.26-7.45 (m, 5H)
5	7.93 (d, J = 8.2 Hz, 2H), 8.00 (brs, 1H), 8.27 (d, J = 8.4 Hz, 2H)
	IR(KBr) 3448, 2962, 2938, 1738, 1627, 1604, 1589, 1519, 1486, 1319, 1250, 1153, 1115, 1071, 1011, cm.1
	mp81-82 ℃
1.885	¹ H NMR (CDCl ₃) δ 1.51 (s, 3H), 1.54 (s, 3H), 1.74 (s, 3H), 1.77 (s, 3H), 2.70 (s, 3H), 3.24 (s, 3H), 3.60 (s, 3H), 3.78 (g, 3H)
3	4.38 (d, J = 7.5 Hz, 2H), 4.65 (d, J = 6.6 Hz, 2H), 6.86 (s, 1H), 7.06-7.11 (m, 3H), 7.35-7.41 (m, 2H), 7.52-7.57 (m, 1H)
	IR(KBr) 3433, 2938, 1699, 1618, 1521, 1481, 1367, 1209, 1178, 1115, 1081, 972, 950, 813, 793 cm ⁻¹

Table 175

	mp208·209 °C
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.23 (s, 3H), 3.60 (s, 3H), 3.76 (s, 3H), 4.64 (d, J = 7.2 Hz, 2H),
J-886	5.49 (t, J = 8.7 Hz, 1H), 6.85 (s, 1H), 7.09 (d, J = 8.7 Hz, 1H), 7.26-7.40 (m, 3H), 7.52-7.58 (m, 1H), 7.69-7.73 (m, 1H), 8.02
	(brs, 1H)
	IR(KBr) 3357, 2939, 1736, 1606, 1523, 1483, 1398, 1370, 1294, 1243, 1179, 1111, 1079, 965, 827, 814, 795 cm ⁻¹
	mp89-90 °C
1001	¹ H NMR (CDCl ₃) δ 2.34 (s, 3H), 2.38 (s, 3H), 2.64 (s, 3H), 3.12 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.92 (s, 2H), 5.14 (s, 2H),
1-88/	6.83 (s, 1H), 6.89 (d, J = 8.7 Hz, 2H), 7.11-7.46 (m, 12H)
	IR(KBr) 3434, 2939, 1699, 1617, 1520, 1481, 1367, 1211, 1178, 1114, 1081, 952, 813, 794 cm ⁻¹
-	mp181.182 C
	¹ H NMR (CDCl ₃) δ 2.38 (s, 3H), 2.66 (s, 3H), 3.12 (s, 3H), 3.59 (s, 3H), 3.76 (s, 3H), 5.14 (s, 2H), 6.85 (s, 1H), 7.14-7.41 (m,
I-888	8H), 7.52-7.58 (m, 1H), 7.69-7.73 (m, 1H), 8.02 (brs, 1H)
	IR(KBr) 3348, 3030, 2940, 1733, 1607, 1523, 1482, 1397, 1366, 1281, 1242, 1212, 1179, 1128, 1112, 1080, 971, 944, 815,
-	799 cm ⁻¹
	mp155-157 °C
1 880	¹ H NMR (CDCl ₃) δ 1.46 (t, J = 7.0 Hz, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 2.73 (s, 3H), 3.23 (s, 3H), 3.56 (s, 3H), 3.74 (s, 3H),
1.003	4.46 (q, J = 7.4 Hz, 2H), 4.65 (d, J = 7.2 Hz, 2H), 5.48-5.54 (m, 1H), 6.69 (s, 1H), 7.09 (d, J = 8.4 Hz, 2H), 7.28-7.47 (m, 4H)
	IR(KBr) 3434, 2938, 1716, 1579, 1477, 1464, 1409, 1366, 1241, 1178, 1124, 1078, 955, 815, 796 cm ⁻¹
	mp82-83 °C
1 800	¹ H NMR (CDCl ₃) δ 2.67 (s, 3H), 3.13 (s, 3H), 3.58 (s, 3H), 3.80 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.13-7.49 (m, 8H), 7.89-
060-1	7.96 (m, 2H), 8.27 (brs, 1H), 8.27-8.31 (m, 1H)
	IR(KBr) 3447, 3033, 2940, 1743, 1521, 1482, 1367, 1312, 1272, 1249, 1178, 1119, 1080, 957, 817, 799 cm ⁻¹

Table 176

	mp86-87 ℃
1001	¹ H NMR (CDCl ₃) δ 2.68 (s, 3H), 3.10 (s, 3H), 3.15 (s, 3H), 3.62 (s, 3H), 3.81 (s, 3H), 5.22 (s, 2H), 6.85 (s, 1H), 7.16-7.50 (m,
1-891	9H), 7.88-7.94 (m, 2H)
	IR(KBr) 3413, 2938, 1519, 1483, 1366, 1313, 1162, 1119, 1090, 1079, 957, 812 cm ⁻¹
	mp97.98 °C
	¹ H NMR (CDCl ₃) δ 1.53 (s, 3H), 1.55 (s, 3H), 1.76 (s, 3H), 1.78 (s, 3H), 3.63 (s, 3H), 3.75 (s, 3H), 4.26 (d, J = 7.4 Hz, 2H),
1.892	4.62 (d, J = 6.8 Hz, 2H), 5.65 (brs, 1H), 5.72 (brs, 1H), 6.84 (s, 1H), 7.04-7.13 (m, 3H), 7.35-7.43 (m, 2H), 7.51-7.58 (m, 1H)
	IR(KBr) 3453, 3379, 2973, 2931, 1719, 1629, 1529, 1490, 1406, 1313, 1288, 1247, 1193, 1101, 1072, 1015, 993, 816, 786
	cm.1
	mp89-90 °C
,	¹ H NMR (DMSO-d ₆) δ 1.75 (s, 3H), 1.78 (s, 3H), 3.31 (s, 3H), 3.62 (s, 3H), 4.56 (d, J = 6.9 Hz, 2H), 5.52 (t, J = 6.0 Hz, 1H),
I-893	6.33 (s, 1H), 6.34-6.47 (m, 2H), 6.74 (brs, 2H), 6.74-6.75 (m, 1H), 6.87-6.91 (m, 1H), 7.11-7.12 (m, 1H), 7.32-7.34 (m, 1H),
	8.52 (brs, 1H), 8.75 (brs, 1H)
	IR(KBr) 3424, 2933, 2614, 1719, 1625, 1585, 1523, 1488, 1408, 1287, 1247, 1125, 1070, 819, 788 cm.1
	mp167-168 °C
1 804	¹ H NMR (CDCl ₃) δ 2.31 (s, 3H), 2.38 (s, 3H), 3.52 (s, 3H), 3.76 (s, 3H), 4.91 (s, 2H), 5.13 (s, 2H), 5.65 (brs, 1H), 5.77 (brs,
1.034	1H), 6.85 (s, 1H), 6.84-6.93 (m, 2H), 7.10-7.44 (m, 12H)
	IR(KBr) 3425, 2933, 2614, 1719, 1625, 1585, 1522, 1488, 1408, 1287, 1247, 1125 cm ⁻¹
<u>-</u> .	mp93-94 °C
	¹ H NMR (DMSO-d ₆) δ 2.11 (s, 3H), 3.34 (s, 3H), 3.62 (s, 3H), 5.10 (s, 2H), 6.32 (s, 2H), 6.41-6.49 (m, 2H), 6.65 (d, J = 9.3
I-895	Hz, 1H), 6.78 (s, 1H), 6.95 (d, J = 8.7 Hz, 1H), 7.09-7.14 (m, 1H), 7.22 (d, J = 8.4 Hz, 2H), 7.41 (d, J = 8.1 Hz, 2H), 8.49 (brs,
	1H), 8.87 (brs, 1H)
	IR(KBr) 3424, 2932, 1717, 1626, 1585, 1523, 1488, 1409, 1248, 1125, 1106, 1070, 811, 793 cm ⁻¹

	mp149.150 °C
1 806	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.77 (s, 3H), 3.32 (s, 3H), 3.55 (s, 3H), 3.76 (s, 6H), 4.55 (d, J = 6.3 Hz, 2H), 5.50 (t, J =
0.60-1	6.6 Hz, 1H), 6.15 (s, 1H), 6.68 (d, J = 2.1 Hz, 1H), 6.91 (d, J = 8.7 Hz, 1H), 7.30 (s, 2H), 8.41 (brs, 1H), 8.74 (brs, 1H)
	IR(KBr) 3423, 2936, 1694, 1578, 1459, 1410, 1319, 1229, 1126, 1067 cm ⁻¹
	mp107-108 C
1 907	¹ H NMR (CDCl ₃) δ 2.70 (s, 3H), 3.12 (s, 3H), 3.55 (s, 3H), 3.72 (s, 3H), 3.78 (s, 6H), 5.18 (s, 2H), 6.65 (s, 1H), 6.70 (d, J =
1.60-1	4.2 Hz, 1H), 7.14 (d, J = 8.4 Hz, 1H), 7.26-7.48 (m, 9H)
	IR(KBr) 3434, 2941, 1517, 1488, 1366, 1353, 1261, 1177, 1102, 1074, 844, 818, 796 cm ⁻¹
	powder
1 900	¹ H NMR (CDCl ₃) δ 1.63 (s, 3H), 1.70 (s, 3H), 3.48 (s, 3H), 3.73-3.76 (m, 7H), 3.87 (s, 3H), 4.98 (s, 1H), 5.24-5.32 (m, 2H),
1.030	5.90 (s, 1H), 6.47 (s, 1H), 6.89-7.02 (m, 5H), 7.51-7.57 (m, 2H)
	IR (KBr) 3447, 2930, 1612, 1523, 1488, 1455, 1398, 1230, 1120, 1080, 1037, 818, 592 cm ⁻¹
	mp 171-173 °C
. 008 1	¹ H NMR (CDCl ₃) δ 1.73 (s, 3H), 1.76 (s, 3H), 3.48 (s, 3H), 3.73-3.76 (m, 5H), 4.23 (s, 1H), 4.92 (s, 1H), 5.37-5.43 (m, 1H).
660-1	5.84 (s, 1H), 6.46 (s, 1H), 6.70 (d, J = 8.1 Hz, 1H), 6.86-7.01 (m, 5H), 7.51-7.56 (m, 2H)
·	IR (KBr) 3392, 2934, 1612, 1526, 1489, 1398, 1222, 1116, 1075, 829, 590 cm ⁻¹
	mp 78-79 ℃
1 900	¹ H NMR (CDCl ₃) δ 2.14 (s, 3H), 2.29 (s, 3H), 2.36 (s, 3H), 3.16 (s, 3H), 3.20 (s, 3H), 5.22 (s, 2H), 7.10 (s, 1H), 7.16 (d, J =
200-1	8.7 Hz, 1H), 7.22-7.49 (m, 11H)
	IR (CHCl ₃) 2939, 1612, 1516, 1476, 1415, 1370, 1291, 1269, 1174, 1150, 1119, 1087, 1018, 971, 954, 873 cm ⁻¹

	mp 114-116 °C	
	¹ H NMR (CDCl ₃) & 1.08-1.14 (m, 6H), 1.77 (s, 3H), 1.81-1.82 (d, J = 0.6 Hz, 3H), 2.53-2.65 (m, 4H), 3.21 (s, 3H), 3.23 (s)	
1.901	3H), 4.62-4.65 (d, J = 6.6 Hz, 2H), 5.52 (m, 1H), 7.04-7.13 (m, 2H), 7.23-7.26 (m, 2H), 7.32-7.42 (m, 5H)	
	IR (CHCl ₃) 2970, 2934, 2874, 1674, 1614, 1572, 1517, 1487, 1415, 1370, 1331, 1288, 1262, 1172, 1149, 1109, 971, 937, 879	
	849 cm ⁻¹	
	mp 97-99 °C	
	¹ H NMR (CDCl ₃) δ 1.07-1.14 (m, 6H), 1.77 (s, 3H), 1.83 (s, 3H), 2.55-2.66 (m. 4H) 4.61-4.64 (d. $J = 6.6$ Hz, 9H) 5.06 (s.	
1.902	1H), 5.54 (m, 1H), 5.77 (s, 1H), 7.24-7.64 (m, 4H), 6.97 (d, J = 2.1 Hz, 1H), 7.10-7.12 (d. J = 5.7 Hz, 2H), 7.33-7.96 (m. 9H)	
	IR (CHCl ₃) 3596, 3537, 2969, 2933, 27873, 1675, 1612, 1586, 1520, 1489, 1385, 1327, 1290, 1257, 1171, 1125, 996, 903, 877	
	836 cm ⁻¹	
	mp 69-71 °C	
1,903	¹ H NMR (CDCl ₃) δ 1.78 (s, 3H), 1.82 (s, 3H), 2.15 (s, 3H), 2.30 (s, 3H), 2.43 (s, 3H), 2.43 (s, 3H), 3.21 (s, 3H), 3.27 (s, 3H)	
000-1	4.64-4.67 (d, J = 6.9 Hz, 2H), 5.50 (s, 2H), 7.10-7.13 (d, J = 9.9 Hz, 2H), 7.23-7.29 (m, 2H), 7.34-7.42 (m, 5H)	
	IR (CHCl ₃) 2939, 1612, 1516, 1476, 1415, 1370, 1331, 1290, 1268, 1174, 1150, 1119, 1086, 971, 954, 873, cm. 1	
	mp 125-127 C	
1 007	¹ H NMR (CDCl ₃) δ 2.27 (s, 6H), 3.91 (s, 3H), 4.88 (br, 1H), 5.20 (s, 2H), 6.83-6.96 (m, 5H) 7 12.7 13 (d, 1 = 4.5 Hz, 2H)	
F06:-I	7.22-7.50 (m, 7H)	
•	IR (CHCl ₃) 3596, 2957, 2936, 1611, 1586, 1522, 1490, 1464, 1454, 1326, 1257, 1179, 1138, 1033, 835, cm. 1	
1.905	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H), 3.91 (s, 3H), 5.21 (s, 2H), 6.83 (dd. J = 8.1 2.1 Hz, 1H), 6.91.	
)	6.96 (m, 2H), 7.11 (s, 1H), 7.15 (s, 1H), 7.32-7.50 (m, 9H)	
	IR (CHCl3) 2938, 1604, 1584, 1519, 1488, 1464, 1454, 1373, 1330, 1260, 1175, 1149, 1033, 1018, 970, 873, 847 cm ⁻¹	

	mp 132-134 C
906-I	¹ H NMR (CDCl ₃) & 2.27 (s, 3H), 2.87, (s, 3H), 3.91 (s, 3H), 5.16 (s, 2H), 5.21 (s, 2H), 5.70 (s, 1H), 6.82-6.86 (m, 2H), 6.92-
_	7.00(m, 4H), 7.13 (s, 2H), 7.32-7.50 (m, 10H)
	IR (CHCl.) 3542, 2936, 2871, 1585, 1519, 1491, 1454, 1382, 1322, 1273, 1175, 1137, 1014, 897, 877, 857 cm.
	mp 181-182 ℃
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.13 (s, 3H), 2.30 (s, 3H), 2.35 (s, 3H), 4.61-4.64 (d, J = 6.9 Hz, 2H), 5.37 (s,
I-907	1H), 5.51 (m, 1H), 5.78 (s, 1H), 6.81 (dd, J = 8.1, 2.1 Hz, 1H), 6.86-6.97 (m, 3H), 7.08 (s, 1H), 7.19-7.22 (m, 2H), 7.26 (s, 1H)
	IR (CHCl ₃) 3595, 3536, 2936, 1613, 1587, 1519, 1479, 1453, 1359, 1330, 1279, 1246, 1173, 1127, 1085, 1024, 974, 950, 881.
	867 cm ⁻¹
	mp 167-168 °C
	¹ H NMR (CDCl ₃) δ 1.77-1.78 (d, J = 0.9 Hz, 3H), 1.84 (s, 3H), 2.08 (s, 3H), 2.15 (s, 3H), 4.63-4.65 (d, J = 6.9 Hz, 2H), 4.82
1.908	(s, 1H), 5.05 (s, 1H), 5.55 (m, 1H), 5.80 (m, 1H), 6.74 (s, 1H), 6.78 (dd, J = 8.4, 2.1 Hz, 1H), 6.87-6.95 (m, 3H), 7.00 (d, J = 8.4)
000-1	Hz, 1H), 7.23-7.26 (m, 2H)
	IR (CHCl ₃) 3594, 3534, 2923, 2869, 1675, 1613, 1584, 1520, 1488, 1455, 1399, 1289, 1247, 1166, 1127, 1091, 994, 948, 835
	cm. ₁
	mp 170-172 ℃
	¹ H NMR (DMSO-d ₆). δ 1.72 (s, 3H), 1.76 (s, 3H), 3.31 (s, 3H), 3.63 (s, 3H), 4.54 (d, $J = 6.5$ Hz, 2H), 5.17 (s, 2H), 5.49 (t, $J =$
I-909	6.5 Hz, 1H), 6.36 (s, 1H), 6.63 (d, J = 8.4 Hz, 2H), 6.63 (dd, J = 8.4, 2.1 Hz, 1H), 6.72 (d, J = 2.1 Hz, 1H), 6.88 (d. J = 8.4 Hz.
	1H), 7.31 (d, J = 8.4 Hz, 2H), 8.40 (s, 1H), 8.70 (s, 1H)
	IR (KBr) 3416, 3329, 1614, 1523, 1489, 1408, 1242, 1219, 1115, 1070, 997, 817, 787 cm. 1

	mp 207-209 ℃
1 010	1H NMR (CDCl ₃) δ 1.54 (s, 9H), 2.69 (s, 3H), 3.12 (s, 3H), 3.52 (s, 3H), 3.77 (s, 3H), 5.18 (s, 2H), 6.56 (s, 1H), 6.85 (s, 1H),
	7.14 (d, J = 8.7 Hz, 1H), 7.32-7.48 (m, 9H), 7.57 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3373, 1734, 1525, 1369, 1227, 1177, 1158, 1080, 816, 793 cm ⁻¹
	mp 214-216 ℃
	¹ H NMR (DMSO-d ₆) δ 2.84 (s, 3H), 3.33 (s, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 5.26 (s, 2H), 5.30 (s, 2H), 6.66 (d, J = 8.7 Hz,
	2H), 6.93 (s, 1H), 7.24-7.45 (m, 8H), 7.52 (m, 2H)
	IR (KBr) 3468, 3386, 1604, 1523, 1482, 1392, 1361, 1175, 1085, 815 cm ⁻¹
	mp 215-218 ℃
0,01	¹ H NMR (CDCl ₃) δ 2.67 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H),
	7.32-7.48 (m, 7H), 7.69 (s, 4H), 8.02 (br s, 1H)
	IR (KBr) 3307, 1733, 1482, 1393, 1361, 1284, 1177, 1084, 1012, 967, 945, 816 cm ⁻¹
	mp 203-205 ℃
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.54 (s, 3H), 3.79 (s, 3H), 4.64 (d, J = 6.8 Hz, 2H),
I-913	5.50 (t, J = 6.8 Hz, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.35 (dd, J = 8.4, 2.0 Hz, 1H), 7.39 (d, J = 2.0 Hz, 1H), 7.69 (s,
	4H), 8.01 (br s, 1H)
	IR (KBr) 3311, 1735, 1482, 1393, 1362, 1177, 1083, 976, 945, 818 cm ⁻¹
	mp 105-107 ℃
1,917	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80, (s, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 3.20 (s, 3H), 3.89 (s, 3H), 4.63-4.65 (d, J = 6.6 Hz,
	2H), 5.57 (m, 1H), 6.87-6.96 (m, 3H), 7.12 (s, 1H), 7.17 (s, 1H), 7.33-7.43 (m, 4H)
	IR (CHCl ₃) 2937, 2866, 1604, 1583, 1519, 1488, 1464, 1373, 1331, 1259, 1175, 1149, 1035, 970, 873 cm ⁻¹

Table 181

	mp 164-165 ℃
	¹ H NMR (CDCl ₃) δ 1.75-1.76 (d, J = 0.6 Hz, 3H), 1.79-1.80 (d, J = 0.9 Hz, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 3.89 (s, 3H),
1.915	4.62-4.65 (d, J = 6.6 Hz, 2H), 4.78 (br, 1H), 5.57 (m, 1H), 6.86-6.96 (m, 4H), 7.12 (s, 1H), 7.15 (s, 1H), 7.22-7.27 (m, 3H)
	IR (CHCl ₃) 3596, 2936, 2865, 1676, 1611, 1584, 1522, 1490, 1464, 1385, 1327, 1257, 1172, 1138, 1100, 1035, 996, 952, 896.,
	835 cm ⁻¹
	mp172-173 ℃
	¹ H NMR (CDCl ₃) δ 1.72 (s, 3H), 1.77 (s, 6H), 1.81 (s, 3H), 2.70 (s, 3H), 3.11 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H), 3.80 (s, 3H),
916·I	4.06-4.27 (m, 2H), 4.64 (d, J = 7.2 Hz, 2H), 5.37-5.50 (m, 2H), 6.85 (s, 1H), 7.10 (d, J = 8.6 Hz, 1H), 7.32-7.39 (m, 2H), 7.52
	(d, J = 8.4 Hz, 1H), 7.84 (d, J = 9.6 Hz, 1H), 7.94 (s, 1H)
	IR(KBr) 3434, 1519, 1482, 1366, 1346, 1308, 1178, 1157, 1120, 1090, 1078, 957, 805 cm ⁻¹
	mp78-80 ℃
1 017	¹ H NMR (CDCl ₃) δ 3.47 (s, 3H), 3.69 (s, 6H), 3.80 (s, 6H), 5.14 (s, 2H), 5.66 (brs, 1H), 5.76 (brs, 1H), 6.30 (s, 1H), 6.69 (d,
110.1	J = 8.2 Hz, 2H), 7.02 (s, 2H), 7.14 (s, 1H), 7.34-7.46 (m, 6H)
	IR(KBr) 3443, 2935, 1614, 1587, 1517, 1470, 1250, 1110, 744 cm ⁻¹
	mp83-84 °C
1.010	1H NMR (DMSO-d6) δ 3.34 (s, 3H), 3.72 (s, 3H), 5.13 (s, 2H), 5.72 (brs, 2H), 6.41 (s, 1H), 6.62-6.93 (m, 4H), 7.32-7.61 (m,
010-1	7H), 8.54 (brs, 1H), 8.88 (brs, 1H)
	IR(KBr) 3398, 2936, 1731, 1633, 1586, 1521, 1489, 1455, 1432, 1402, 1291, 1216, 1112, 1071 cm ⁻¹
	mp74-75 °C
1 010	¹ H NMR (CDCl ₃) δ 2.02 (s, 6H), 3.11 (s, 3H), 3.21 (s, 3H), 5.02 (brs, 1H), 5.18 (s, 2H), 6.96 (s, 1H), 7.04-7.18 (m, 3H),
616-1	7.37-7.59 (m, 9H)
	IR(KBr) 3503, 3032, 2937, 1513, 1474, 1365, 1289, 1197, 1175, 1149, 1114, 970, 867, 811 cm ⁻¹

Table 182

	mp78-79 ℃
1 090	¹ H NMR (CDCl ₃) δ 1.73 (s, 3H), 1.78 (s, 6H), 1.83 (s, 3H), 3.11 (s, 3H), 3.48 (s, 3H), 3.77 (s, 3H), 4.07-4.29 (m, 2H), 4.64 (d,
076-1	J = 6.8 Hz, 2H), 5.41-5.55 (m, 2H), 5.73 (s, 1H), 5.82 (s, 1H), 6.47 (s, 1H), 6.94-7.05 (m, 3H), 7.53 (d, J = 8.0 Hz, 1H), 7.86 (d,
	J = 8.6 Hz, 1H), 8.00 (s, 1H)IR(KBr) 3449, 2971, 2935, 1519, 1489, 1424, 1338, 1310, 1226, 1152, 1117, 1070, 1059, 773 cm ⁻¹
	mp176-177 °C
1 00 1	¹ H NMR (CDCl ₃) δ 2.10 (s, 3H), 2.18 (s, 3H), 2.47 (s, 3H), 3.12 (s, 3H), 3.23 (s, 3H), 5.20 (s, 2H), 7.09-7.21 (m, 3H), 7.39-
1-96-1	7.51 (m, 8H), 7.60 (d, J = 8.4 Hz, 2H).
	IR(KBr) 3433, 3033, 2937, 1516, 1470, 1360, 1291, 1267, 1176, 1150, 1119, 976, 857 cm ⁻¹
	mp 170.172 °C
	¹ H NMR (DMSO-d ₆) δ 3.36 (s, 3H), 3.66 (s, 3H), 4.22 (br d, J = 2.5 Hz, 2H), 4.50 (t, J = 4.5 Hz, 1H), 4.57 (d, J = 5.7 Hz,
1.922	2H), 4.60 (d, J = 5.7 Hz, 2H), 4.97 (t, J = 5.7 Hz, 2H), 5.17 (s, 2H), 5.23 (t, J = 5.7 Hz, 1H), 6.93 (s, 1H), 7.04 (d, J = 8.4 Hz,
	1H), 7.14 (dd, J = 8.4, 2.3 Hz, 1H), 7.28-7.37 (m, 2H), 7.40-7.45 (m, 4H), 7.49-7.53 (m, 2H), 7.61 (d, J = 8.1 Hz, 2H)
	IR (KBr) 3322, 1462, 1385, 1228, 1037, 1006, 750, 700 cm ⁻¹
	mp 130-132 °C
1 002	¹ H NMR (CDCl ₃) δ 1.55 (s, 9H), 1.62 (s, 3H), 2.30 (s, 12H), 3.00 (s, 6H), 6.73 (br s, 1H), 6.78-6.82 (m, 2H), 7.07-7.14 (m,
1.36.0	4H), 7.24-7.27(m, 2H), 8.07-8.13 (m, 2H)
	IR (KBr) 3600-2800(br), 1732, 1624, 1610, 1583, 1530, 1493, 1366, 1347, 1320, 1236, 1154 cm ⁻¹
	mp 104-106 C
1 097	¹ H NMR (CDCl ₃) δ 2.27 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 3.74 (br s, 2H), 6.77-6.85 (m, 3H), 6.96 (dd, J = 1.8, 8.1 Hz, 1H),
170-1	7.03 (dd, J = 2.1, 12.0 Hz, 1H), 7.09 (s, 1H), 7.13 (s, 1H), 7.24-7.29 (m, 2H)
	IR (KBr) 3600-2800(br), 1631, 1608, 1580, 1530, 1487, 1436, 1363, 1233, 1195 cm ⁻¹

Table 183

	mp 100-102 °C
	¹ H NMR (CDCl ₃) δ 1.75 (d, J = 0.6 Hz, 3H), 1.78 (d, J = 0.6 Hz, 3H), 2.29 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 3.77 (d, J = 6.6)
1.925	Hz, 2H), 3.87 (br s, 2H), 5.37-5.40 (m, 1H), 6.71-6.83 (m, 3H), 7.00-7.03 (m, 2H), 7.11 (s, 1H), 7.13 (s, 1H), 7.25-7.29 (m)
	2H)
	IR (KBr) 3600-2800(br), 1623, 1610, 1529, 1490, 1441, 1348, 1328, 1253, 1229, 1120, 1065 cm.
	mp 178-180 °C
1 096	¹ H NMR (CDCl ₃) δ 2.27 (s, 3H), 2.32 (s, 3H), 3.01 (s, 6H), 6.78-6.83 (m, 2H), 7.10 (s, 1H), 7.16 (s, 1H), 7.18-7.28 (m, 4H)
076-1	8.12 (br s, 1H), 8.27-8.33 (m, 1H)
	IR (KBr) 3600-2800(br), 1709, 1613, 1532, 1490, 1356, 1283, 1229, 1188, 1167 cm ⁻¹
,	mp 154-156 °C
1 0.07	¹ H NMR (CDCl ₃) δ 1.94 (d, J = 1.2 Hz, 3H), 2.26 (d, J = 1.2 Hz, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 3.00 (s, 6H). 5.79-5.80 (m)
170-1	1H), 6.78-6.82 (m, 3H), 7.09-7.16 (m, 4H), 7.16-7.24 (m, 2H), 8.38-8.44 (m, 1H)
	IR (KBr) 3600-2800(br), 1681, 1665, 1643, 1610, 1528, 1506, 1487, 1442, 1359, 1317, 1237, 1198, 1159, 2001.
7.098	¹ H NMR (CDCl ₃) δ 1.44 (t, J = 7.5 Hz, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 3.16-3.23 (m, 2H), 6.53 (d. J = 2.4 Hz, 1H), 6.78.
070-1	6.82 (m, 2H), 7.09 (s, 1H), 7.14-7.18 (m, 3H), 7.24-7.27 (m, 3H), 7.59-7.65 (m, 1H)
	IR (KBr) 3600-2800(br), 1607, 1527, 1491, 1451, 1436, 1359, 1336, 1271, 1222, 1153, 1110 cm.1
	mp 184·186 °C
1.999	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 2.32 (s, 3H), 3.01 (s, 6H), 6.78-6.83 (m, 2H), 7.10 (s, 1H), 7.18 (s, 1H), 7.23-7.27 (m, 1H)
	7.65 (dd, J = 1.8, 8.1 Hz, 1H), 7.70 (d, J = 2.1 Hz, 1H), 8.19-8.24 (m, 1H)
	IR (KBr) 3600-2800(br), 1721, 1612, 1536, 1490, 1325, 1282, 1242, 1197, 1169, 1123, 1054 cm.

	mp 212-215°C
1 000	¹ H NMR (DMSO-d ₆) δ 2.83 (s, 3H), 3.43 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 4.87 (s, 2H), 7.08 (s, 1H), 7.21 (d, J
1-990	= 8.4 Hz, 1H), $7.27 \sim 7.32$ (m, 2H), 7.48 (d, $J = 8.7$ Hz, 2H), 7.74 (d, $J = 8.7$ Hz, 2H)
	IR (Nujol) 1731, 1604, 1519, 1480, 1237, 1174, 1081, 1013, 876, 839, 822, 804 cm ⁻¹
	mp 166-168°C
1 031	¹ H NMR (CDCl ₁) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.67 (d, J = 9.0 Hz, 2H), 6.45 (s, 1H), 6.78 (t, J = 9.0 Hz, 1H), 6.92 (d, J = 8.7
1.00.1	Hz, 2H), 6.92 (d, J = 8.4 Hz, 1H), 6.98 (dd, J = 8.4, 2.1 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H)
	IR (Nujol) 3399, 1611, 1588, 1523, 1488, 1460, 1224, 1113, 1070, 1012, 939, 825, 813, 795 cm.
	foam
	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.64~4.74 (m, 3H), 6.45 (s, 1H), 6.92 (d, $J = 8.7$ Hz, 2H), 6.93 (d, $J = 8.4$, Hz.
1.932	1H), 6.97 (dd, $J = 8.4$, 2.1 Hz, 1H), 7.08 (d, $J = 2.1$ Hz, 1H), 7.53 (d, $J = 8.7$ Hz, 2H)
	IR (Nujol) 3570, 3461, 3357, 3180, 1753, 1616, 1596, 1524, 1495, 1408, 1313, 1287, 1264, 1240, 1200, 1114, 1073, 1011.
	906, 825 cm ⁻¹
	mp 120.123 C
1.033	¹ H NMR (CDCl ₃) δ 1.69 (s, 3H), 1.74 (s, 6H), 1.80 (s, 3H), 3.49 (s, 3H), 6.68-3.75 (m, 5H), 4.58 (d, J = 6.6 Hz, 2H), 5.31-
	5.41 (m, 1H), 5.50-5.56 (m, 1H), 5.81 (s, 1H), 6.46 (s, 1H), 6.68-6.74 (m, 2H), 6.85-6.93 (m, 3H), 7.50-7.56 (m, 2H)
	IR (KBr) 3460, 2969, 2929, 1609, 1523, 1490, 1398, 1247, 1117, 1078, 1013, 824, 778, 708, 589 cm ⁻¹
	mp 171-173 ℃
1.034	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.80 (s, 3H), 3.47 (s, 3H), 3.73 (s, 3H), 3.81 (s, 2H), 4.58 (d, J = 6.9 Hz, 2H), 5.50-5.57 (m.
	1H), 5.82 (s, 1H), 6.44 (s, 1H), 6.77-6.94 (m, 5H), 7.50-7.55 (m, 2H)
	IR (KBr) 3382, 3320, 2929, 1613, 1523, 1490, 1405, 1262, 1221, 1120, 1067, 1011. 844, 818, 598 cm ⁻¹

	mp 220.221 ℃
	'H NMR (DMSO-d ₆) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.08 (s, 3H), 3.30 (s, 3H), 3.64 (s, 3H), 4.64 (d, J = 7.2 Hz, 2H), 5.48-5.54
1.935	I-935 (m, 1H), 6.40 (s, 1H), 6.80-6.87 (m, 2H), 6.93-7.03 (m, 2H), 7.42-7.46 (m, 2H), 7.85 (s, 1H), 8.58 (s, 1H), 8.96 (s, 1H), 9.56 (s,
	(H)
	IR (KBr) 3476, 3400, 3322, 2935, 1658, 1610, 1542, 1520, 1487, 1270, 1258, 1225, 1115, 1010, 825, 596 cm ⁻¹
	mp 149-150 °C
	¹ H NMR (CDCl ₃) δ 1.48 (s, 3H), 1.67 (s, 3H), 1.76 (s, 3H), 1.80 (s, 3H), 3.63 (s, 3H), 3.74 (s, 3H), 4.27 (d, J = 7.5 Hz, 2H),
1.936	4.63 (d, J = 6.6 Hz, 2H), 5.01 (s, 1H), 5.20-5.28 (m, 1H), 5.52-5.60 (m, 1H), 6.66 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 7.01 (t, J = 1.00)
•	8.7 Hz, 1H), 7.10.7.22 (m, 2H), 7.48 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3335, 2936, 1671, 1614, 1596, 1522, 1441, 1403, 1369, 1265, 1233, 1111, 1077, 1008, 945, 832 cm ⁻¹
	mp 122-123 °C
1 037	¹ H NMR (CDCl ₃) δ 3.44 (s, 3H), 3.76 (s, 3H), 4.77 (d, J = 6.3 Hz, 2H), 5.05 (s, 1H), 6.04 (s, 1H), 6.24 (t, J = 6.3 Hz, 1H),
	6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H) 7.01 (t, J = 8.7 Hz, 1H), 7.19.7.30 (m, 2H), 7.53 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3582, 3502, 3237, 2950, 1614, 1524, 1490, 1453, 1403, 1301, 13267, 1231, 1112, 1073, 1019, 881, 827 cm ⁻¹
٠	mp143·144 °C
1 030	¹ H NMR (CDCl ₃) δ 1.79 (s, 3H), 1.84 (s, 3H), 2.10 (s, 3H), 2.17 (s, 3H), 2.47 (s, 3H), 3.23 (s, 3H), 3.24 (s, 3H), 4.66 (d, J =
000-1	6.6 Hz, 2H), 5.20-5.55 (m, 1H), 7.09-7.16 (m, 4H), 7.40 (d, J = 8.7 Hz, 2H), 7.60 (d, J = 8.1 Hz, 2H)
	IR(KBr) 3433, 2935, 1513, 1472, 1366, 1188, 1178, 1152, 1117, 974, 857 cm ⁻¹
	mp80-81 °C
1.030	¹ H NMR (CDCl ₃) δ 3.47 (s, 3H), 3.48 (s, 3H), 3.68 (s, 3H), 3.81 (s, 6H), 4.79 (s, 2H), 5.13 (s, 2H), 5.14 (s, 2H), 5.65 (s, 1H),
2001	5.75 (s, 1H), 6.28 (s, 1H), 6.69 (s, 2H), 7.01 (s, 2H), 7.14 (s, 1H), 7.40.7.45 (m, 5H)
	IR(KBr) 3433, 2937, 1720, 1582, 1508, 1455, 1407, 1285, 1239, 1125, 1069, 1051, 1011 cm ⁻¹

Table 186

	mp71-72 °C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.73 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.72 (s, 3H), 3.78 (s, 6H), 4.63 (d, J =
1-940	6.8 Hz, 2H), 5.46-5.52 (m, 1H), 6.65 (s, 1H), 6.70 (d, J = 3.8 Hz, 2H), 7.07 (d, J = 8.4 Hz, 1H), 7.34-7.46 (m, 3H)
	IR(KBr) 3433, 2938, 1674, 1609, 1587, 1518, 14732, 1365, 1252, 1178, 1109, 1077, 971, 945, 815, 796 cm ⁻¹
	mp98-99 °C
1001	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.78 (s, 3H), 3.50 (s, 3H), 3.71 (s, 3H), 3.72 (d, J = 8.1 Hz, 2H), 5.35 (t, J = 7.2 Hz, 1H),
1.534.1	5.64 (s, 1H), 5.77 (s, 1H), 6.43 (s, 1H), 7.02-7.15 (m, 3H), 7.32-7.41 (m, 2H), 7.49-7.56 (m, 1H)
	IR(KBr) 3408, 2934, 1627, 1529, 1491, 1444, 1405, 1246, 1175, 1102, 1069, 822, 783 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.68 (s, 3H), 2.73 (s, 3H), 3.25 (s, 3H), 3.60 (s, 3H), 3.81 (s, 3H), 4.65 (d, J =
1 049	6.3 Hz, 2H), 5.44 · 5.53 (m, 1H), 6.87 (s, 1H), 7.10 (.d, J = 8.7 Hz, 1H), 7.30 · 7.47 (m, 3H), 7.84 (d.d, J = 7.8 & 2.1 Hz, 1H),
440-1	8.22 (d, J = 2.1Hz, 1H)
	IR (KBr) 1530, 1480, 1362, 1272, 1237, 1179, 1077cm ⁻¹
	¹ H NMR (CDCl ₃) δ 2.69 (s, 3H), 3.12 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 3.84 (s, 2H), 5.18 (s, 2H), 6.82 (s, 1H), 6.84 (d, J =
I-943	8.1 Hz, 1H), 7.14 (d, J = 8.4 Hz, 1H), 7.21 - 7.50 (m, 9H)
	IR (KBr) 3466,3377, 1634, 1583, 1525, 1488, 1461, 1400, 1288, 1245, 1196, 1105,1069cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.49 (s, 3H), 3.75 (s, 3H), 4.61 (d, J = 6.6 Hz, 2H), 5.48 - 5.57 (m, 1H), 5.59 -
I-944	5.75 (m, 1H), 5.88 (s, 1H), 6.43 (s, 1H), 6.83 \cdot 7.07 (m, 4H), 7.21 \cdot 7.30 (m, 1H), 7.35 (d.d, J = 12.3 & 1.8Hz, 2H)
	IR (KBr) 3465,3377, 1634, 1525, 1488, 1460, 1400, 1287, 1245, 1195, 1105, 1068cm ⁻¹
	¹ H NMR (CDCl ₃) δ 2.02 (s, 6H), 2.15 (s, 3H), 3.20 (s, 3H), 5.20 (s, 3H), 6.81 - 6.86(m, 1H), 6.93 (d.d, J = 10.7 & 2.1Hz, 1H),
I-945	6.97 (s, 1H), 7.04 - 7.12 (m, 1H), 7.31 - 7.52 (m, 9H)
	IR (KBr) 1513, 1468, 1362, 1295, 1264, 1227, 1193, 1171, 1151, 1003,965cm ⁻¹

-	¹ H NMR (CDCl ₃) δ 2.02 (s, 6H), 2.15 (s, 3H), 3.20 (s, 3H), 5.14 (d, J = 3.9 Hz, 1H), 6.81 · 6.86 (m, 1H), 6.91 (d.d, J = 10.1 &
1.946	2.1 Hz, 1H), 6.97 (s, 1H), 7.04 - 7.12 (m, 1H), 7.30 - 7.42 (m, 4H)
	IR (KBr) 3414, 1624, 1595, 1518, 1473, 1360, 1294, 1170, 1144, 1120, 1104, 1016cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.02 (s, 6H), 2.16 (s, 3H), 3.20 (s, 3H), 4.64 (d, J = 6.6Hz, 2H), 5.53-5.61 (m,
1.947	1H), 6.82 - 7.09 (m, 4H), 7.33 (d, J = 9.0Hz, 2H), 7.39 (d, J = 9.0 Hz, 2H)
	IR (KBr) 1514, 1468, 1376, 1294, 1262, 1175, 1152,992,968cm ⁻¹
	¹ H NMR (CDCl ₃) 6 1.77 (s, 3H), 1.82 (s, 3H), 2.02 (s, 6H), 2.17 (s, 3H), 4.64 (d, J = 6.6Hz, 2H), 4.81 (s, 1H), 5.52 - 5.60 (m,
1.948	1H), 6.82-7.08 (m, 6H), 7.22 (.d, J = 8.7Hz, 2H)
	IR (KBr) 3568,3417, 1613, 1517, 1471, 1287, 1261, 1230, 1192, 1132, 1102, 1001cm ⁻¹
	¹ H NMR (CDCl ₃) δ 3.02 (s, 6H), 3.46 (s, 3H), 3.75 (s, 3H), 5.18 (s, 2H), 6.03 (s, 1H), 6.47 (s, 1H), 6.82 (d, J = 8.7 Hz, 2H),
I-949	7.03 - 7.51 (m, 8H), 7.55 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3502, 1604, 1527, 1488, 1359, 1267, 1233, 1198, 1110, 1070cm ⁻¹
	¹ H NMR (CDCl ₃) δ 2.60 (s, 3H), 3.03 (s, 6H), 3.54 (s, 3H), 3.76 (s, 3H), 5.21 (s, 2H), 6.80 (d, J = 8.7 Hz, 2H), 6.86 (s,
1-950	1H),7.03 - 7.49 (m, 8H), 7.54 (d, J = 8.7 Hz, 2H)
	IR (KBr) 1602, 1530, 1483, 1444, 1395, 1366, 1233, 1179, 1078, 1015cm ⁻¹
•	¹ H NMR (CDCl ₃) δ 2.76 (s, 3H), 3.02 (s, 6H), 3.54 (s, 3H), 3.76 (s, 3H), 5.28 (s, 1H), 6.81 (d, J = 9.0Hz, 2H), 6.86 (s, 1H),
1.951	$7.04 \cdot 7.23$ (m, 3H), 7.54 (d, $J = 9.0$ Hz, 2H)
	IR (KBr) 3375, 1607, 1530, 1483, 1395, 1346, 1292, 1228, 1163, 1077, 1009cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (s, 3H), 2.71 (s, 3H), 3.02 (s, 6H), 3.55 (s, 3H), 3.76 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H),
I-952	5.49 - 5.57 (m, 1H), 6.82 (.d, J = 8.7 Hz, 2H), 6.86 (s, 1H), 7.01 - 7.23 (m, 3H), 7.54 (d, J = 8.7 Hz, 2H)
	IR (KBr) 1602, 1531, 1484, 1389, 1369, 1258, 1235, 1197, 1176, 1084cm ⁻¹

	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (s, 3H), 3.02 (s, 6H), 3.47 (s, 3H), 3.75 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.51 · 5.60 (m,
1.953	1H), 6.03 (s, 1H), 6.47 (s, 1H), 6.82 (.d, $J = 8.7 \text{ Hz}$, 2H), 6.99 · 7.08 (m, 1H), 7.16 · 7.29 (m, 2H), 7.55 (d, $J = 8.7 \text{ Hz}$, 2H)
	IR (KBr) 3498, 1604, 1528, 1488, 1360, 1266, 1234, 1198, 1110, 1067cm ⁻¹
	¹ H NMR (CDCl ₃) δ 3.02 (s, 6H), 3.47 (s, 3H), 3.75 (s, 3H), 5.14 (s, 1H), 6.03 (s, 1H), 6.47 (s, 1H), 6.82 (d, J = 9.0Hz, 2H),
1-954	
	IR (KBr) 3492,3383, 1607, 1529, 1488, 1397, 1223, 1103, 1065, 1006cm ⁻¹
1 0 E	¹ H NMR (CDCl ₃) 6 2.01 (s, 6H), 2.17 (s, 3H), 4.75 (s, 1H), 5.19 (s, 2H), 6.83 · 7.15(m, 7H), 7.30 · 7.53 (m, 6H)
1-333	IR (KBr) 3542, 1607, 1579, 1513, 1469, 1263, 1126, 1107, 1015cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.66 (s, 3H), 3.50 (s, 3H), 3.77 (s, 3H), 4.62 (d, J = 6.4Hz, 2H), 5.48 · 5.56 (m,
1 0 E C	1H), 5.71 (s, 1H), 5.81 (s, 1H), 5.47 (s, 1H), 6.90 \cdot 7.00 (m, 2H), 7.04 (d, $J = 1.8$ Hz, 1H), 7.42 (d, $J = 7.8$ Hz, 2H), 7.82 (d.d, $J = 1.8$ Hz, 1H), 5.71 (s, 1H), 5.81 (s, 1H), 5.81 (s, 1H), 6.90 \cdot 7.00 (m, 2H), 7.04 (d, $J = 1.8$ Hz, 1H), 7.42 (d, $J = 7.8$ Hz, 2H), 7.82 (d.d, $J = 1.8$ Hz, 1H), 6.90 \cdot 7.90 (m, 2H), 7.04 (d, $J = 1.8$ Hz, 1H), 7.42 (d, $J = 7.8$ Hz, 2H), 7.82 (d.d, $J = 1.8$ Hz, 1H), 6.90 \cdot 7.90 (m, 2H), 7.04 (d, $J = 1.8$ Hz, 1H), 7.42 (d, $J = 7.8$ Hz, 2H), 7.82 (d.d, $J = 1.8$ Hz, 1H), 6.90 \cdot 7.90 (m, $J = 1.8$ Hz, $J =$
000-1	= 7.8 & 1.8Hz, 1H), 8.26(.d, J = 1.5 Hz, 1H)
	IR (KBr) 3520,3419, 1585, 1529, 1506, 1344, 1313, 1290, 1251, 1226, 1118, 1079cm ⁻¹
	mp 123·126 ℃
1 057	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.78 (d, J = 0.9 Hz, 3H), 3.47 (s, 3H), 3.75 (s, 3H), 3.87 (s, 3H), 3.88 (s, 3H), 4.63 (d, J = 6.6
100-1	Hz, 2H), 5.57 (m, 1H), 5.92 (s, 1H), 6.47 (s, 1H), 6.95-7.40 (m, 5H), 7.56-7.62 (m, 2H)
	IR (CHCl ₃) 3510, 2934, 1608, 1519, 1489, 1461, 1394, 1285, 1243, 1175, 1115, 1075, 1034, 1008, 926, 823 cm ⁻¹
	mp 163·164 C
1.052	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.78 (s, 3H), 3.61 (s, 3H), 3.65 (s, 3H), 3.75 (s, 3H), 3.88 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H),
	4.99 (s, 1H), 5.58 (m, 1H), 6.68 (s, 1H), 6.88-6.98 (m, 5H), 7.46-7.52 (m, 2H)
	IR (CHCl ₃) 3592, 2934, 1610, 1517, 1461, 1387, 1237, 1171, 1136, 1111, 1084, 1036, 1012, 830 cm ⁻¹

Table 189

	mp 142-146 °C
3	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.47 (s, 3H), 3.75 (s, 3H), 3.94 (s, 3H), 4.61 (d, J = 6.6 Hz, 2H), 5.53 (m, 1H)
1-959	5.69 (s, 1H), 5.70 (s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.94-7.26 (m, 6H)
	IR (CHCl ₃) 3526, 2930, 1585, 1520, 1489, 1460, 1399, 1287, 1260, 1110, 1070, 1010, 819 cm ⁻¹
1.060	¹ H NMR (CDCl ₃) δ 2.39 (s, 3H), 3.47 (s, 3H), 3.94 (s, 3H), 5.10 (s, 2H), 5.68 (s, 1H), 5.69 (s, 1H), 5.92 (s, 1H), 6.46 (s, 1H)
1.300	6.93-7.38 (m, 6H)
	IR (CHCl ₃) 3528, 1585, 1519, 1489, 1460, 1399, 1260, 1110, 1070, 1009, 863, cm ⁻¹
	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 4.79 (br, 1H), 5.19 (s, 2H), 6.87-6.90 (m, 2H), 7.03-7.15 (m, 4H), 7.22-7.26 (m, 2H), 7.34-
1-961	7.50 (m, 6H)
	IR (CHCl ₃) 3596, 2925, 2869, 1612, 1581, 1523, 1490, 1455, 1383, 1313, 1298, 1259, 1171, 1125, 1100, 1012, 956, 877, 836
	cm.1
	mp 150-151 °C
1 000	¹ H NMR (CDCl ₃) δ 2.28 (s, 3H), 3.90 (s, 3H), 4.77-4.79 (d, J = 6.0 Hz, 2H), 6.26 (d, J = 6.0 Hz, 1H), 6.88-6.91 (m, 5H)
706-1	7.13-7.14 (d, J = 2.7 Hz, 2H), 7.24-7.27 (m, 2H)
	IR (CHCl ₃) 3596, 2958, 1732, 1612, 1587, 1522, 1490, 1464, 1325, 1257, 1172, 1139, 1100, 1032, 886, 835 cm. ¹
	mp 93-94 °C
1 069	¹ H NMR (CDCl ₃) δ 2.27 (s, 3H), 4.76-4.79 (d, J = 6.0 Hz, 2H), 5.12 (br, 1H), 6.24 (t, J = 6.0 Hz, 1H), 6.88-7.15 (m. 7H)
COC-1	7.22-7.26 (m, 2H)
	IR (CHCl3) 3596, 2925, 2867, 1613, 1583, 1523, 1490, 1458, 1424, 1388, 1258, 1171, 1126, 1100, 1022, 956, 886, 836, cm. 1

Table 190

12H) 12H) 12H) 12H) 1R (CHCl ₃) 3534, 1609, 1587, 15 foam 'H NMR (CDCl ₃) δ 3.61 (s, 3F) 1H), 7.00-7.12 (m, 4H), 7.29-7.5 IR (CHCl ₃) 3531, 1587, 1516, 1- mp 174-175 ℃ 'H NMR (CDCl ₃) δ 2.28 (s, 3F) 1.966 1.8, 8.4 Hz, 1H), 7.04 (d, J = 8.4) IR (KBr) 3516, 3398, 1587, 151 cm ⁻¹ mp 103-104 ℃ 1.967 'H NMR (CDCl ₃) δ 2.26 (s, 6F) IR (KBr) 3409, 1742, 1523, 148	s, 3H), 3.74 (s, 3H), 5.06 (s, 1H), 5.15 (s, 2H), 5.70 (s, 1H), 5.94 (s, 1H), 6.46 (s, 1H), 6.81-7.50 (m, 37, 1518, 1504, 1482, 1463, 1455, 1407, 1322, 1290, 1249, 1200, 1112, 1072, 1011 cm ⁻¹ (s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 5.72 (s, 2H), 6.46 (s, 1H), 6.83 (s, 1H), 6.94 (dd, J = 2.0, 8.4 Hz, 9-7.50 (m, 7H) 16, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm ⁻¹
12H) IR (CHCl ₃) 3534, 1609, 1587, foam 'H NMR (CDCl ₃) \(\delta\) 3.61 (s, 1H), 7.00-7.12 (m, 4H), 7.29-7 IR (CHCl ₃) 3531, 1587, 1516, mp 174-175 \(\mathcal{C}\) 1H NMR (CDCl ₃) \(\delta\) 2.28 (s, 18, 8.4 Hz, 1H), 7.04 (d, J = 8) IR (KBr) 3516, 3398, 1587, 1 cm ⁻¹ mp 103-104 \(\mathcal{C}\) 1H NMR (CDCl ₃) \(\delta\) 2.26 (s, 1H NMR (CDCl ₃) \(\delta\) 2.26 (s, 1H NMR (CDCl ₃) \(\delta\) 2.26 (s, 1R (KBr) 3409, 1742, 1523, 1	(5, 1518, 1504, 1482, 1463, 1455, 1407, 1322, 1290, 1249, 1200, 1112, 1072, 1011 cm ⁻¹ (5, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 5.72 (s, 2H), 6.46 (s, 1H), 6.83 (s, 1H), 6.94 (dd, J = 2.0, 8.4 Hz, 9.7.50 (m, 7H) (6, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm ⁻¹
IR (CHCl ₃) 3534, 1609, 1587, foam 1H NMR (CDCl ₃) & 3.61 (s, 1H), 7.00-7.12 (m, 4H), 7.29-7 IR (CHCl ₃) 3531, 1587, 1516, mp 174-175 C 1H NMR (CDCl ₃) & 2.28 (s, 18, 8.4 Hz, 1H), 7.04 (d, J = 8 IR (KBr) 3516, 3398, 1587, 1 cm ⁻¹ mp 103-104 C 1H NMR (CDCl ₃) & 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	37, 1518, 1504, 1482, 1463, 1455, 1407, 1322, 1290, 1249, 1200, 1112, 1072, 1011 cm ⁻¹ (s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 5.72 (s, 2H), 6.46 (s, 1H), 6.83 (s, 1H), 6.94 (dd, J = 2.0, 8.4 Hz, 9.7.50 (m, 7H) (6, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm ⁻¹
foam 1H NMR (CDCl ₃) δ 3.61 (s, 1H), 7.00-7.12 (m, 4H), 7.29-7 IR (CHCl ₃) 3531, 1587, 1516, mp 174-175 ℃ 1H NMR (CDCl ₃) δ 2.28 (s, 1.8, 8.4 Hz, 1H), 7.04 (d, J = 8 IR (KBr) 3516, 3398, 1587, 1 cm ⁻¹ mp 103-104 ℃ 1H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	(s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 5.72 (s, 2H), 6.46 (s, 1H), 6.83 (s, 1H), 6.94 (dd, J = 2.0, 8.4 Hz, 9.7.50 (m, 7H) 16, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm. 1
1H NMR (CDCl ₃) δ 3.61 (s, 1H), 7.00-7.12 (m, 4H), 7.29-7 IR (CHCl ₃) 3531, 1587, 1516, mp 174-175 ℃ 1H NMR (CDCl ₃) δ 2.28 (s, 1.8, 8.4 Hz, 1H), 7.04 (d, J = 8 IR (KBr) 3516, 3398, 1587, 1 cm ⁻¹ mp 103-104 ℃ 1H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	(s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 5.72 (s, 2H), 6.46 (s, 1H), 6.83 (s, 1H), 6.94 (dd, J = 2.0, 8.4 Hz, 9.7.50 (m, 7H) 16, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm ⁻¹
1H), 7.00-7.12 (m, 4H), 7.29-7 IR (CHCl ₃) 3531, 1587, 1516, mp 174-175 °C 'H NMR (CDCl ₃)	9-7.50 (m, 7H) 16, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm ⁻¹
IR (CHCl ₃) 3531, 1587, 1516, mp 174-175 °C ¹ H NMR (CDCl ₃) δ 2.28 (s, 1.8, 8.4 Hz, 1H), 7.04 (d, J = 8 IR (KBr) 3516, 3398, 1587, 1 cm ¹ mp 103-104 °C ¹ H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	16, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm ⁻¹
mp 174-175 °C 1H NMR (CDCl ₃)	-1 FF 00 0 111 7 00 0 111 7 00 0 111 7 00 0 111 7 00 0 110 7 010 7 110 0 010 7 100 0 110 7 00 0 110 7
¹ H NMR (CDCl ₃) δ 2.28 (s, 1.8, 8.4 Hz, 1H), 7.04 (d, J = 8 IR (KBr) 3516, 3398, 1587, 1 cm ⁻¹ mp 103-104 $\mathbb C$ ¹ H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	-1 (6) 000 0 (1) 0 00 0 (1) 10 0 0 1 11 0 0 0 (1) 11 0 0 0 (1) 11 0 0 0 (1) 11 1-
1.8, 8.4 Hz, 1H), 7.04 (d, J = 8 IR (KBr) 3516, 3398, 1587, 1 cm. ¹ mp 103-104 °C ¹ H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	(s, 5H), 5.30 (s, 5H), 5.11 (s, 5H), 5.10 (s, 7H), 5.00 (s, 1H), 5.00 (s, 1H), 6.30 (s, 1H), 6.30 (dd, 9 -
IR (KBr) 3516, 3398, 1587, 1 cm ⁻¹ mp 103-104 °C ¹ H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	1.8, 8.4 Hz, 1H), 7.04 (d, J = 8.4 Hz, 1H), 7.11 (d, J = 1.8 Hz, 1H), 7.22-7.49 (m, 9H)
cm. ¹ mp 103-104 °C ¹ H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	, 1516, 1500, 1484, 1453, 1412, 1306, 1285, 1247, 1231, 1202, 1126, 1101, 1072, 1019, 769, 737
mp 103-104 °C 'H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	
¹ H NMR (CDCl ₃) δ 2.26 (s, IR (KBr) 3409, 1742, 1523, 1	
IR (KBr) 3409, 1742, 1523, 148	(s, 6H), 4.61-4.78 (m, 3H), 4.84 (s, 1H), 6.84-6.92 (m, 2H), 6.97-7.16 (m, 5H), 7.21-7.27 (m, 2H)
	IR (KBr) 3409, 1742, 1523, 1489, 1315, 1295, 1259, 1231, 1206, 1193, 1124, 1001, 834, 815 cm ⁻¹
mp 90-91 °C	
1 950 1.17 (s, 6	(s, 6H), 1.82 (d, J = 0.9 Hz, 6H), 2.27 (s, 6H), 4.56 (d, J = 6.6 Hz, 2H), 5.13 (d, J = 6.6 Hz, 2H),
5.49-5.60 (m, 2H), 6.94-7.00	00 (m, 2H), 7.01-7.14 (m, 5H), 7.25-7.31 (m, 2H)
IR (KBr) 1608, 1522, 1488, 137	, 1378, 1299, 1288, 1273, 1259, 1242, 1196, 1176, 1014, 831, 811, 776 cm ⁻¹

Table 191

	mp 200-203 °C
1	¹ H NMR (CDCl ₃) δ 2.00 (s, 3H), 2.25 (s, 3H), 3.46 (s, 3H), 3.73 (s, 3H), 3.83 (s, 3H), 5.25 (s, 1H), 6.01-6.03 (m, 1H), 6.06 (s,
1-909	1H), 6.45 (s, 1H), 6.86-6.90 (m, 2H), 7.04-7.14 (m, 3H), 7.47-7.52 (m, 2H)
	IR (KBr) 3433, 2937, 1721, 1651, 1523, 1489, 1398, 1264, 1225, 1136, 1071, 1035, 927, 823, 530 cm ⁻¹
	mp 157-160 °C
	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.80 (s, 3H), 2.86 (s, 3H), 3.49 (s, 3H), 3.75 (s, 3H), 4.57 (d, J = 6.6 Hz, 2H), 5.08 (s, 1H),
1.970	5.50-5.57 (m, 1H), 5.82 (s, 1H), 6.46 (s, 1H), 6.66 (d, J = 2.1 Hz, 1H), 6.73 (dd, J = 2.1, 8.1 Hz, 1H), 6.86-6.94 (m, 3H), 7.50-
	7.56 (m, 2H)
	IR (KBr) 3392, 2934, 1611, 1523, 1490, 1397, 1242, 1216, 1112, 1074, 1002, 592 cm ⁻¹
	mp 153·155 °C
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.10 (s, 3H), 3.20 (s, 3H), 3.21 (s, 3H), 3.36 (s, 3H), 3.71 (s, 3H), 4.63 (d, J =
1.971	6.9 Hz, 2H), 5.52 (t, J = 6.9 Hz, 1H), 6.73 (s, 1H), 7.06 (d, J = 8.4 Hz, 1H), 7.14 (dd, J = 8.4, 2.1 Hz, 1H), 7.23 (d, J = 2.1 Hz, 1Hz, 1Hz, 1Hz, 1Hz, 1Hz, 1Hz, 1Hz,
	1H), 7.36 (d, $J = 8.9$ Hz, 2H), 7.69 (d, $J = 8.9$ Hz, 2H)
	IR (KBr) 1515, 1474, 1365, 1229, 1175, 1151, 1096, 973, 870, 810 cm ⁻¹
	amorphous
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.43 (s, 3H), 3.44 (s, 3H), 3.71 (s, 3H), 4.49 (d, J = 9.9 Hz, 2H), 4.62 (d, J = 6.6
1.972	Hz, 2H), 4.72 (d, J = 7.2 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 6.86 (s, 1H), 6.96 (d, J = 8.7 Hz, 1H), 7.21-7.30 (m, 4H), 7.54 (d, J =
· · · ·	8.1 Hz, 2H)
	IR (KBr) 3599, 1463, 1386, 1081, 1007 cm ⁻¹

	тр 83-86 °С
	¹ H NMR (DMSO-d ₆) δ 1.74 (s, 3H), 1.77 (s, 3H), 3.36 (s, 3H), 3.65 (s, 3H), 4.23 (d, J = 23.1 Hz, 2H), 4.48 (t, J = 4.4 Hz,
1 079	1H), 4.52 (d, J = 5.4 Hz, 2H), 4.52-4.60 (m, 4H), 4.89 (t, J = 5.6 Hz, 1H), 5.22 (t, J = 5.9 Hz, 1H), 5.48 (t, J = 6.6 Hz, 1H), 6.92
016-1	(s, 1H), 6.96 (d, $J = 8.6$ Hz, 1H), 7.12 (dd, $J = 8.6$, 1.5 Hz, 1H), 7.26 (d, $J = 1.5$ Hz, 1H), 7.42 (d, $J = 8.0$ Hz, 2H), 7.61 (d, $J = 1.5$ Hz, 1H), 7.42 (d, $J = 1.5$ Hz, 2H), 7.42 (d, $J = 1.$
	8.0 Hz, 2H)
	IR (KBr) 3399, 1464, 1386, 1230, 1005 cm ⁻¹
	mp 177-179 °C
1 074	¹ H NMR (CDCl ₃) δ 1.31 (d, J = 6.9 Hz, 6H), 2.70 (s, 3H), 2.98 (sept, J = 6.9 Hz, 1H), 3.12 (s, 3H), 3.54 (s, 3H), 3.76 (s, 3H),
1-974	5.19 (s, 2H), 6.87 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.30.7.49 (m, 9H), 7.54 (d, J = 7.8 Hz, 2H)
	IR (KBr) 1512, 1480, 1369, 1176, 1084, 1014, 813, 798 cm ⁻¹
	mp 180-182 ℃
	¹ H NMR (CDCl ₃) δ 1.31 (d, J = 6.6 Hz, 6H), 1.76 (s, 3H), 1.81 (s, 3H), 2.74 (s, 3H), 2.98 (sept, J = 6.6 Hz, 1H), 3.22 (s, 3H),
1.975	3.54 (s, 3H), 3.77 (s, 3H), 4.63 (d, J = 6.7 Hz, 2H), 5.49 (t, J = 6.7 Hz, 1H), 6.87 (s, 1H), 7.08 (d, J = 8.4 Hz, 1H), 7.31 (d, J =
	8.1 Hz, 2H), 7.35 (dd, $J = 8.4$, 2.1 Hz, 1H), 7.40 (d, $J = 2.1$ Hz, 1H), 7.54 (d, $J = 8.1$ Hz, 2H)
	IR(KBr) 1520, 1481, 1366, 1177, 1083, 1012, 975, 944, 815, 797 cm ⁻¹
	mp 125-126 °C
	¹ H NMR (CDCl ₃) δ 1.31 (d, J = 6.9 Hz, 6H), 1.76 (s, 3H), 1.82 (s, 3H), 2.97 (sept, J = 6.9 Hz, 1H), 3.46 (s, 3H), 3.74 (s, 3H),
1.976	4.61 (d, J = 7.1 Hz, 2H), 5.53 (t, J = 7.1 Hz, 1H), 5.68 (s, 1H), 5.91 (s, 1H), 6.48 (s, 1H), 6.95-6.96 (m, 2H), 7.06-7.07 (m, 1H),
	7.31 (d, J = 8.0 Hz, 2H), 7.57 (d, J = 8.0 Hz, 2H)
	IR (KBr) cm ⁻¹

Table 193

	foam
1 033	"H NMR (CDCl ₃) & 2.68 (s, 3H), 3.13 (s, 3H), 3.20 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H), 7.15 (d, J =
1-6-1	8.7 Hz, 1H), 7.31-7.62 (m, 11H)
	IR (CHCl ₃) 1517, 1475, 1371, 1227, 1219, 1176, 1117, 1081, 968, 925, 856, 821 cm ⁻¹
	foam
1 070	¹ H NMR (CDCl ₃) δ 2.65 (s, 3H), 2.94 (s, 3H), 3.14 (s, 3H), 3.59 (s, 3H), 3.76 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H), 7.16 (d, J =
1-978	8.7 Hz, 1H), 7.33-7.57 (m, 11H)
·	IR (CHCl ₃) 1517, 1477, 1398, 1370, 1268, 1233, 1216, 1177, 1159, 1079, 972, 894, 856, 818 cm ⁻¹
	foam
1 070	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.69 (s, 3H), 2.94 (s, 3H), 3.25 (s, 3H), 3.60 (s, 3H), 3.76 (s, 3H), 4.64 (d, J =
GIG-T	6.9 Hz, 2H), 5.50 (m, 1H), 6.86 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.34-7.57 (m, 11H)
	IR (CHCl ₃) 1517, 1476, 1398, 1369, 1234, 1178, 1159, 1105, 1079, 972, 895, 854, 814, 801 cm ⁻¹
	foam
1 000	¹ H NMR (CDCl ₃) 6 1.76 (d, J = 0.9 Hz, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.71 (s, 3H), 3.20 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H),
1-300	3.79 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.49 (m, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.7 Hz, 1H), 7.31-7.40 (m, 3H), 7.48-7.55 (m, 3H)
	IR (CHCl ₃) 1517, 1474, 1365, 1269, 1236, 1177, 1140, 1116, 1078, 964, 923, 854, 814 cm ⁻¹
	mp 122-123 °C
1 00 1	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (d, J = 0.4 Hz, 3H), 3.62 (s, 3H), 3.75 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.53 (m, 1H),
100.1	5.70 (s, 1H), 5.73 (s, 1H), 6.46 (s, 1H), 6.86 (s, 1H), 6.89-7.13 (m, 4H), 7.29-7.46 (m, 3H)
	IR (KBr) 3366, 1587, 1496, 1482, 1462, 1449, 1408, 1371, 1313, 1290, 1245, 1210, 1126, 1093, 1073, 1001, 783, 770 cm ⁻¹

Table 194

	14 NMIK (CDCL3) 0 1.76 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.74 (s, 3H), 4.61 (d, $J = 6.9 \text{ Hz}$, 2H), 4.91 (s, 1H), 5.53 (m, 1H),
1-985	5.70 (s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.86 (m, 1H), 6.91-7.02 (m, 2H), 7.06 (m, 1H), 7.13 (m, 1H), 7.21 (m, 1H), 7.32 (m,
	1H)
	IR (KBr) 3368, 1585, 1519, 1507, 1484, 1460, 1450, 1403, 1294, 1255, 1237, 1206, 1110, 1072, 1006, 789, 766 cm
	mp 92.5-93 ℃
1 000	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.83 (d, $J = 0.9$ Hz, 3H), 2.26 (s, 3H), 2.27 (s, 3H), 4.63 (d, $J = 6.9$ Hz, 2H), 5.13 (d, $J = 3.9$
	Hz, 1H), 5.55 (m, 1H), 6.98-7.14 (m, 8H)
	IR (CHCl ₃) 3578, 2922, 1618, 1522, 1490, 1383, 1282, 1120, 979, 873, 824 cm ⁻¹
	тр 89-95 °С
1 007	¹ H NMR (CDCl ₃) δ 1.77 (s, 6H), 1.81 (d, J = 0.9 Hz, 6H), 2.27 (s, 6H), 4.63 (d, J = 6.6 Hz, 4H), 5.55 (m, 2H), 6.98-7.14 (m,
1-304	8H)
	IR (CHCl ₃) 2930, 1576, 1520, 1490, 1382, 1296, 1270, 1127, 987, 874 cm ⁻¹
	mp 74-75 ℃
	¹ H NMR (CDCl ₃) δ 2.16 (s, 3H), 2.69 (s, 3H), 3.14 (s, 3H), 3.20 (s, 3H), 3.56 (s, 3H), 5.20 (s, 2H), 7.16-7.49 (m, 11H), 7.65-
I-985	7.68 (m, 2H)
	IR (CHCl ₃) 2939, 1732, 1613, 1518, 1478, 1454, 1415, 1371, 1331, 1292, 1268, 1176, 1150, 1118, 1088, 1010, 969, 950, 872
	cm.1
	mp 50-52 ℃
1 08 <i>c</i>	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.16 (s, 3H), 2.74 (s, 3H), 3.20 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H), 4.64.4.66 (d,
000-1	J = 6.3 Hz, 2H), 5.50 (m, 1H), 7.10-7.39 (m, 6H), 7.66-7.68 (m, 2H)
	IR (CHCl ₃) 2938, 1613, 1518, 1477, 1370, 1331, 1290, 1267, 1176, 1150, 1117, 1088, 970, 949, 871 cm ⁻¹

1001	¹ H NMR (CDCl ₃) δ 1.59-1.60 (d, J = 0.6 Hz, 3H), 1.70-1.71 (d, J = 0.9 Hz, 3H), 2.26(s, 3H), 2.28 (s, 3H), 2.36 (m, 1H), 2.77
1-987	(m, 1H), 3.20 (s, 3H), 3.23 (s, 3H), 5.24 (m, 1H), 7.12 (s, 1H), 7.15 (s, 1H), 7.23-7.25 (m, 1H), 7.33-7.42 (m, 6H)
	mp 159-161 °C
0001	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.12 (s, 3H), 3.48 (s, 3H), 4.61-4.64 (d, J = 6.6 Hz, 2H), 4.75 (br, 1H), 5.54 (m,
1-300	1H), 5.69 (s, 1H), 5.73 (s, 1H), 6.77-6.98 (m, 6H), 7.51-7.54 (m, 2H)
	IR (CHCl ₃) 3595, 3529, 2937, 1613, 15787, 1522, 1489, 1455, 1401, 1310, 1289, 1173, 1127, 1095, 1009, 939, 835 cm ⁻¹
	mp 126-128 ℃
	¹ H NMR (CDCl ₃) δ 2.25 (s, 3H), 3.78 (s, 3H), 5.16 (s, 2H), 5.75 (br, 1H), 6.83-6.89 (m, 4H), 6.98-7.00 (m, 2H), 7.17 (s, 1H),
686·I	7.40-7.47 (m, 7H)
	IR (CHCl ₃) 3596, 3543, 2937, 1610, 1588, 1523, 1493, 1465, 1455, 1388, 1328, 1315, 1262, 1173, 1126, 1038, 1012, 835 cm
	mp 87-90 ℃
	¹ H NMR (CDCl ₃) δ 1.59-1.60 (d, J = 0.6 Hz, 3H), 1.72-1.73 (d, J = 0.9 Hz, 3H), 2.26 (s, 3H), 2.28 (s, 3H), 2.34-2.37 (m, 2H),
066-I	2.66-2.71 (m, 2H), 4.84-4.86 (br, 2H), 5.28 (m, 1H), 6.79 (d, J = 1.5 Hz, 1H), 6.86-6.89 (m, 3H), 7.11-7.17 (m, 3H), 7.23-7.26
	(m, 2H)
	IR (CHCl ₃) 3598, 2925, 2859, 1612, 1569, 1521, 1488, 1450, 1425, 1414, 1328, 1257, 1171, 1101, 958, 836 cm ⁻¹
	mp 174-176 °C
	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 3.13 (s, 3H), 3.18 (s, 3H), 3.80 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.13 (d, J = 8.4 Hz, 1H),
1.991	7.18 (s, 1H), 7.28-7.50 (m, 9H), 7.59-7.62 (m, 2H)
	IR (CHCl ₃) 2940, 1732, 1613, 1520, 1490, 1465, 1455, 1415, 1371, 1331, 1291, 1260, 1173, 1149, 1111, 1038, 1018, 1003,
	971, 872, 813 cm ⁻¹

1.992	mp 135-137 °C 'H NMR (CDCl ₃)
	cm ⁻¹
	mp 131-133 °C ¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.83 (s, 3H), 2.26 (s, 3H), 3.78 (s, 3H), 4.61-4.64 (d, J = 6.9 Hz, 2H), 5.17 (br, 1H), 5.35 (m,
F66-1	1H), 5.78 (br, 1H), 6.83-6.99 (m, 6H), 7.17 (s, 1H), 7.44-7.47 (m, 2H) IR (CHCl3) 3596, 3539, 2937, 1610, 1587, 1523, 1492, 1464, 1454, 1388, 1328, 131, 1292, 1261, 1173, 1126, 1038, 996, 834 cm ⁻¹
1.994	mp 127-130 °C ¹ H NMR (CDCl ₃) δ 1.73 (d, J = 0.9 Hz, 3H), 1.76 (d, J = 0.9 Hz, 3H), 2.99 (s, 6H), 3.73-3.76 (m, 2H), 3.78 (s, 6H), 3.88 (s,
	3H), 5.37-5.40 (m, 1H), 5.83 (d, J = 7.8 Hz, 1H), 6.78-6.84 (m, 2H), 6.95 (s, 1H), 6.96 (s, 1H), 7.06-7.12 (m, 2H), 7.48-7.53 (m, 2H)
	mp91-93 °C HE NAME (CDC), & 170 /2 2HY 104 /2 2HY 104 /2 2HY 105 /2 1 /2 2HY 104 /2 2HY
1.995	Hz, 1H), 6.63 (dd, $J = 2.0$, 8.2 Hz, 1H), 6.77 (d, $J = 2.0$ Hz, 1H), 6.93-6.99 (m, 4H), 7.39 (d, $J = 8.6$ Hz, 2H) IR(KBr) 3423, 2921, 1611, 1518, 1474, 1282, 1244, 1205, 1125, 1089, 995, 837, 815, 785, 221, 1611, 1518, 1474, 1282, 1244, 1205, 1125, 1089, 995, 837, 815, 785, 231.
9	mp185-186 $\mathbb C$ ¹ H NMR (CDCl ₃) δ 1.32 (t, $J = 7.5$ Hz, 3H), 2.71 (q, $J = 7.5$ Hz, 2H), 3.46 (g, 3H), 3.76 (g, 3H), 5.15 (g, 2H), 5.69 (g, 1H)
1-996	5.89 (s, 1H), 6.94-7.08 (m, 3H), 7.37-7.46 (m, 5H), 7.54-7.59 (m, 2H), 7.82 (brs, 1H), 7.93 (d, J = 8.1 Hz, 1H) IR(KBr) 3504, 3269, 2968, 2936, 1708, 1532, 1518, 1487, 1311, 1286, 1193, 1121, 1071, 1014 cm ⁻¹

	mp77-78 °C
	"H NMR (CDCl ₃) \$\delta\$ 1.73 (s, 3H), 1.77 (s, 3H), 1.82 (s, 3H), 2.70 (s, 3H), 3.25 (s, 3H), 3.55 (s, 3H), 3.82 (s, 3H), 4.65 (d, J =
1.997	6.9 Hz, 2H), 4.94 (d, J = 7.5 Hz, 2H), 5.31 (t, J = 8.7 Hz, 1H), 5.50 (t, J = 6.6 Hz, 1H), 6.87 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H),
	7.28-7.39 (m, 3H), 7.87 (d, J = 8.1 Hz, 1H), 7.99 (s. 1H)
	IR(KBr) 3431, 2939, 1702, 1518, 1483, 1368, 1308, 1204, 1177, 1121, 1092, 1079, 957, 804 cm ⁻¹
	mp144·145 C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.69 (s, 3H), 3.80 (s, 6H), 4.61 (d, J = 6.9 Hz, 2H), 5.51 (t, J = 4.8
1-998	Hz, 1H), 5.66 (brs, 1H), 5.76 (brs, 1H), 6.30 (s, 1H), 6.69 (d, J = 8.1 Hz, 2H), 6.93.7.01 (m, 2H), 7.11 (d, J = 2.1 Hz, 1H),
	7.31-7.37 (m, 1H)
	IR(KBr) 3476, 2936, 1589, 1517, 1500, 1472, 1408, 1288, 1249, 1111 cm ⁻¹
	mp82-83 ℃
1 000	¹ H NMR (CDCl ₃) δ 2.71 (s, 3H), 3.15 (s, 3H), 3.48 (s, 3H), 3.56 (s, 3H), 3.72 (s, 3H), 3.80 (s, 6H), 4.66 (s, 2H), 4.79 (s, 2H),
CCC-T	5.19 (s, 2H), 6.69 (s, 1H), 7.14-7.17 (m, 1H), 7.36-7.49 (m, 8H)
	IR(KBr) 3434, 2939, 1719, 1613, 1581, 1508, 1463, 1396, 1365, 1294, 1272, 1238, 1177, 1122, 1078, 814 cm ⁻¹
	mp85-86 ℃
1,1000	¹ H NMR (CDCl ₃) δ 1.31 (t, J = 7.5 Hz, 3H), 2.66 (s, 3H), 2.71 (q, J = 7.6 Hz, 2H), 3.13 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H),
2001-1	5.19 (s, 2H), 6.85 (s, 1H), 7.15 (d, J = 8.8 Hz, 1H), 7.33-7.59 (m, 4H), 7.85 (brs, 1H), 7.94 (d, J = 8.4 Hz, 1H)
	IR(KBr) 3432, 2939, 1727, 1519, 1480, 1365, 1237, 1165, 1079, 959, 803 cm ⁻¹
	mp105-106 ℃
	¹ H NMR (CDCl ₃) δ 1.76 (s, 6H), 1.79 (s, 3H), 1.82 (s, 3H), 3.49 (s, 3H), 3.75 (s, 3H), 3.81 (d, J = 6.6 Hz, 2H), 4.62 (d, J = 7.2
I-1001	Hz, 2H), 5.37 (t, J = 6.3 Hz, 1H), 5.53 (t, J = 6.9 Hz, 1H), 5.68 (brs, 1H), 5.87 (brs, 1H), 6.82 (d, J = 8.4 Hz, 1H), 6.95 (s, 2H),
	7.05 (s, 1H), 7.26 (s, 1H), 7.69 (dd, J = 2.1, 8.4 Hz, 1H), 7.75 (brs, 1H)
	IR(KBr) 3459, 2934, 1622, 1582, 1525, 1493, 1467, 1327, 1240, 1139, 1113, 1070, 817 cm ⁻¹

	mp89-91 C
,	14 NMR (CDCl3) & 2.70 (s, 3H), 3.12 (s, 3H), 3.55 (s, 3H), 3.71 (s, 3H), 3.79 (s, 6H), 4.77 (s, 2H), 5.18 (s, 2H), 6.69 (s, 2H)
1.1002	
	IR(KBr) 3440, 2939, 1721, 1612, 1581, 1508, 1463, 1395, 1364, 1238, 1178, 1120, 1078, 962, 814, 523 cm ⁻¹
	mp196-197 °C
1 1009	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 3.48 (s, 3H), 3.76 (s, 3H), 5.16 (s, 2H), 5.69 (brs, 1H), 5.83 (brs, 1H), 6.44 (s, 1H), 6.93.
6001-1	7.05 (m, 4H), 7.26-7.45 (m, 6H), 7.84 (d, J = 8.1 Hz, 1H), 7.92 (s, 1H), 8.29 (brs, 1H)
	IR(KBr) 3407, 2934, 1672, 1589, 1524, 1459, 1425, 1400, 1316, 1288, 1213, 1119, 1057, 1006, 745 cm ⁻¹
	mp80-81 ℃
	¹ H NMR (CDCl ₃) δ 1.29 (t, J = 7.5 Hz, 3H), 1.72 (s, 3H), 1.76 (s, 6H), 1.81 (s, 3H), 2.70 (s, 3H), 2.71 (q, J = 7.5 Hz, 2H),
I.1004	3.24 (s, 3H), 3.50 (s, 3H), 3.81 (s, 3H), 4.64 (d, J = 6.3 Hz, 2H), 4.72-4.76 (m, 2H), 5.31 (t, J = 6.9 Hz, 1H), 5.50 (t, J = 6.3 Hz,
	1H), 6.87 (s, 1H), 7.08-7.12 (m, 2H), 7.34-7.41 (m, 3H), 7.61 (s, 1H)
	IR(KBr) 3434, 2974, 2938, 1694, 1517, 1480, 1366, 1237, 1202, 1177, 1080, 972, 807, 523 cm ⁻¹
	mp157-158 ℃
	¹ H NMR (CDCl ₃) δ 1.31 (t, J = 7.8 Hz, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 2.71 (q, J = 7.8 Hz, 2H), 3.24 (s, 3H),
1.1005	3.55 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.50 (t, J = 8.1 Hz, 2H), 6.85 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.33.7.38 (m,
	2H), 7.52 (d, J = 8.1 Hz, 1H), 7.58 (s, 1H), 7.84 (brs, 1H), 7.94 (d, J = 8.1 Hz, 1H)
	IR(KBr) 3434, 3350, 2938, 1727, 1523, 1480, 1368, 1248, 1178, 1165, 1080, 972, 816, 802, 522 cm ⁻¹
	mp91-93 ℃
	¹ H NMR (CDCl ₃) δ 1.30 (t, J = 7.5 Hz, 3H), 1.75 (s, 6H), 1.79 (s, 3H), 1.81 (s, 3H), 2.55 (q, J = 7.5 Hz, 2H), 3.48 (s, 3H),
1.1006	3.74 (s, 3H), 3.79 (d, $J = 6.3$ Hz, 2H), 4.61 (d, $J = 6.6$ Hz, 2H), 5.41 (t, $J = 6.0$ Hz, 1H), 5.53 (t, $J = 6.9$ Hz, 1H), 5.67 (brs, 1H),
	5.94 (brs, 1H), 6.48 (s, 1H), 6.72 (d, J = 8.4 Hz, 1H), 6.95 (s, 2H), 7.07 (s, 1H), 7.37-7.45 (m, 2H), 7.64 (d, J = 7.5 Hz, 1H),
	IR(KBr) 3433, 2932, 1609, 1521, 1489, 1461, 13958, 1308, 1286, 1245, 1192, 1114, 1072, 1011, 811 cm 1

1-1007 1-11007 1-11007 1-11007 1-11007 1-11008 1-11008 1-11008 1-11008 1-11008 1-11008 1-11008 1-11009		mp71-72 °C
4.61 (d, J = 6.6 Hz, 2H), 5.53 (2H), 7.06 (s, 1H), 7.26 (s, 1H), IR(KBr) 3436, 2932, 1620, 156 mp 171-173 ℃ 1H) MMR (CDCl ₃) δ 3.46 (s, 3 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), IR (KBr) 3544, 3514, 3462, 15 mp 180-182 ℃ 1H) MMR (CDCl ₃) δ 2.68 (s, 3 7.32-7.49 (m, 9H), 7.57 (d, J = 1R (KBr) 1518, 1478, 1370, 11 mp 128-130 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 1R (KBr) 1517, 1482, 1287, 12 mp 138-140 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8 1R (KBr) 1518, 1478, 1369, 11 R (KBr) 1518, 1478, 1369, 11 R (KBr) 1518, 1478, 1369, 11		¹ H NMR (CDCl ₃) δ 1.31 (t, J = 7.5 Hz, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 2.60 (q, J = 7.2 Hz, 2H), 3.47 (s, 3H), 3.75 (s, 3H),
2H), 7.06 (s, 1H), 7.26 (s, 1H), IR(KBr) 3436, 2932, 1620, 158 mp 171-173 °C 1H NMR (CDCl ₃) δ 3.46 (s, ξ 1H), 7.03 (d, J = 8.4 Hz, 157 (d, J = 1.4 NMR (CDCl ₃) δ 2.68 (s, β 7.32-7.49 (m, 9H), 7.57 (d, J = 1R (KBr) 1518, 1478, 1370, 11 mp 128-130 °C 1H NMR (CDCl ₃) δ 1.76 (s, β 6.9 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C 1H NMR (CDCl ₃) δ 1.76 (s, β 6.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8 IR (KBr) 1518, 1478, 1369, 11 R (KBr) 1518, 1478, 1369, 11	1.1007	زنبع
IR(KBr) 3436, 2932, 1620, 158 mp 171-173 °C 1H NMR (CDCl ₃)		2H), 7.06 (s, 1H), 7.26 (s, 1H), 7.39 (s, 1H)
mp 171-173 °C 'H NMR (CDC!3)		IR(KBr) 3436, 2932, 1620, 1584, 1519, 1487, 1459, 1397, 1285, 1242, 1112, 1072, 819 cm ⁻¹
1H), 7.03 (d, J = 8.4 Hz, 1H), 1H), 7.03 (d, J = 8.4 Hz, 1H), 1R (KBr) 3544, 3514, 3462, 15 mp 180-182 ℃ 1H NMR (CDCl ₃) δ 2.68 (s, 3) 7.32-7.49 (m, 9H), 7.57 (d, J = 1R (KBr) 1518, 1478, 1370, 11 mp 128-130 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 1R (KBr) 1517, 1482, 1287, 12 mp 138-140 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (s, J = 8.6 Hz, 2H), 7.57 (d, J = 8.1 (KBr) 1518, 1478, 1369, 11 R (KBr) 1518, 1478, 1369, 11		mp 171.173 ℃
1H), 7.03 (d, J = 8.4 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.04 (KBr) 3544, 3514, 3462, 15 mp 180-182 °C 1H NMR (CDCl ₃) 6 2.68 (s, 7.32-7.49 (m, 9H), 7.57 (d, J = 1R (KBr) 1518, 1478, 1370, 11 mp 128-130 °C 1H NMR (CDCl ₃) 6 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C 1H NMR (CDCl ₃) 6 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8.6 Hz, 2H), 7.51 (d, J = 8.6 Hz, 2Hz), 7.51 (1 1000	¹ H NMR (CDCl ₃) δ 3.46 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.88 (s, 1H), 6.44 (s, 1H), 6.95 (dd, J = 8.4, 1.9 Hz,
IR (KBr) 3544, 3514, 3462, 15 mp 180-182 °C 1H NMR (CDCl ₃) 6 2.68 (s, 7.32-7.49 (m, 9H), 7.57 (d, J = 1R (KBr) 1518, 1478, 1370, 11 mp 128-130 °C 1H NMR (CDCl ₃) 6 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C 1H NMR (CDCl ₃) 6 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (d, J = 8) IR (KBr) 1517, 1482, 1287, 12	1-1000	1H), 7.03 (d, J = 8.4 Hz, 1H), 7.08 (d, J = 1.9 Hz, 1H), 7.37.7.48 (m, 7H), 7.59 (d, J = 8.4 Hz, 2H)
mp 180-182 °C 1H NMR (CDCl ₃) 6 2.68 (s, 7.32-7.49 (m, 9H), 7.57 (d, J = 1R (KBr) 1518, 1478, 1370, 11 mp 128-130 °C 1H NMR (CDCl ₃) 6 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C 1H NMR (CDCl ₃) 6 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.40 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.60 (t, J = 8.60 (t		IR (KBr) 3544, 3514, 3462, 1517, 1482, 1388, 1284, 1247, 1089, 1107, 1069, 1006, 938, 822 cm ⁻¹
1H NMR (CDCl ₃) & 2.68 (s, 7.32-7.49 (m, 9H), 7.57 (d, J = IR (KBr) 1518, 1478, 1370, 11 mp 128-130 °C 1H NMR (CDCl ₃) & 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8.4 Hz, 2H), 7.57 (d, J = 8.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8.4 Hz, 2H), 7.51 (d		mp 180-182 ℃
7.32-7.49 (m, 9H), 7.57 (d, J = IR (KBr) 1518, 1478, 1370, 11 mp 128-130 °C 1H NMR (CDCl ₃) \$ 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8.4 Hz, 2H), 7.59 (d, J = 8.4 Hz, 2H), 7.59 (d, J = 8.4 Hz, 2H), 7.57 (d, J = 8.4 Hz, 2H), 7.57 (d, J = 8.4 Hz, 2H), 7.57 (d, J = 8.6 Hz, 2H), 7.57 (d, J = 8.6 Hz, 2H), 7.57 (d, J = 8.4 Hz, 2H), 7.51 (d, J = 8.4 Hz, 2Hz), 7.51 (d, J = 8.4 Hz, 2Hz), 7.51 (d, J = 8.4	1 1000	¹ H NMR (CDCl ₃) 6 2.68 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 5.19 (s, 2H), 6.83 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H),
IR (KBr) 1518, 1478, 1370, 11 mp 128-130 °C 'H NMR (CDCl ₃)	1.1003	7.32-7.49 (m, 9H), 7.57 (d, J = 8.7 Hz, 2H)
mp 128-130 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 ³ J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (do so		IR (KBr) 1518, 1478, 1370, 1177, 1085, 1012, 813, 797 cm ⁻¹
¹ H NMR (CDCl ₃) δ 1.76 (s, 5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 ℃ ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8 IR (KBr) 1518, 1478, 1369, 11		mp 128-130 °C
5.69 (s, 1H), 5.85 (s, 1H), 6.44 J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8.6 Hz, 2Hz, 2H), 7.57 (d, J = 8.6 Hz, 2Hz, 2H), 7.57 (d, J = 8.6 Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz,		¹ H NMR (CDCl ₃) & 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 4.62 (d, J = 7.0 Hz, 2H), 5.53 (t, J = 7.0 Hz, 1H),
J = 8.4 Hz, 2H), 7.59 (d, J = 8 IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C 'H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8 IR (KBr) 1518, 1478, 1369, 11	I-1010	5.69 (s, 1H), 5.85 (s, 1H), 6.44
IR (KBr) 1517, 1482, 1287, 12 mp 138-140 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8 IR (KBr) 1518, 1478, 1369, 11		J = 8.4 Hz, 2H, 7.59 (d, J = 8.4 Hz, 2H)
mp 138·140 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8.6 KBr) 1518, 1478, 1369, 11		IR (KBr) 1517, 1482, 1287, 1244, 1106, 1070, 1013, 822, 783 cm ⁻¹
¹ H NMR (CDCl ₃) 6 1.76 (s, 5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8 (KBr) 1518, 1478, 1369, 11		mp 138-140 °C
5.49 (t, J = 6.5 Hz, 1H), 6.83 (J = 8.6 Hz, 2H), 7.57 (d, J = 8 IR (KBr) 1518, 1478, 1369, 11		¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.5 Hz, 2H),
J = 8.6 Hz, 2H), 7.57 (d, J = 8.6 Hz, 2H) IR (KBr) 1518, 1478, 1369, 1177, 1083, 972, 814, 795, cm ⁻¹	I-1011	5.49 (t, J = 6.5 Hz, 1H), 6.83 (s, 1H), 7.09 (d, J = 8.3 Hz, 1H), 7.34 (dd, J = 8.3, 2.0 Hz, 1H), 7.39 (d, J = 2.0 Hz, 1H), 7.43 (d,
IR (KBr) 1518, 1478, 1369, 1177, 1083, 972, 814, 795 cm ⁻¹		J = 8.6 Hz, 2H, 7.57 (d, J = 8.6 Hz, 2H)
		IR (KBr) 1518, 1478, 1369, 1177, 1083, 972, 814, 795 cm ⁻¹

	mp 135-138 ℃
1 1019	¹ H NMR (CDCl ₃) δ 1.55-1.63 (m, 2H), 1.77 (s, 6H), 1.83 (s, 6H), 4.56 (d, J = 6.6 Hz, 4H), 4.66 (d, J = 4.5 Hz, 4H), 5.50-5.58
7101-1	(m, 2H), 6.96-7.01 (m, 4H), 7.32-7.38 (m, 4H), 7.45 (s, 2H)
	IR (KBr) 3339, 2914, 1609, 1520, 1488, 1385, 1289, 1238, 1177, 1000, 834, 651 cm ⁻¹
	mp 202-205 ℃
6101	¹ H NMR (CDCl ₃ +CD3OD) δ 1.78 (s, 3H), 1.82 (s, 3H), 4.57 (d, J = 6.6 Hz, 2H), 4.62 (s, 4H), 5.50-5.56 (m, 1H), 6.86-7.00
1-1013	(m, 4H), 7.24-7.37 (m, 4H), 7.44 (s, 2H)
	IR (KBr) 3399, 2974, 2930, 1610, 1522, 1489, 1438, 1383, 1238, 1176, 999, 903, 838, 538 cm ⁻¹
	mp 219.221 ℃
1 101 1	¹ H NMR (CDCl ₃) δ 2.22 (s, 3H), 2.69 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 5.19 (s, 2H), 6.85 (s, 1H), 7.15 (d, J =
1-1014	8.4 Hz, 1H), 7.32-7.49 (m, 7H), 7.60 (s, 4H)
	IR (KBr) 3384, 1701, 1604, 1524, 1482, 1355, 1294, 1176, 1084, 1011, 945, 818 cm ⁻¹
	mp 173-175 ℃
	¹ H NMR (DMSO-d ₆) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.08 (s, 3H), 2.87 (s, 3H), 3.35 (s, 3H), 3.47 (s, 3H), 3.77 (s, 3H), 4.68 (d, J
I-1015	= 6.4 Hz, 2H), 5.48 (t, J = 6.4 Hz, 1H), 7.02 (s, 1H), 7.26-7.29 (m, 3H), 7.57 (d, J = 8.7 Hz, 2H), 7.70 (d, J = 8.7 Hz, 2H), 10.07
	(s, 1H)
	IR (KBr) 3383, 1704, 1235, 1524, 1481, 1360, 1177, 1083, 976, 816 cm ⁻¹
	mp 144-145 C
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.70 (s, 3H), 3.21 (s, 3H), 3.52 (s, 3H), 3.69 (d, J = 1.6 Hz, 3H), 4.65 (d, J = 6.8
1.1016	I-1016 Hz, 2H), 5.53 (t, J = 6.8 Hz, 1H), 7.08 (t, J = 8.4 Hz, 1H), 7.16 (dd, J = 8.4, 1.8 Hz, 1H), 7.20 (dd, J = 11.7, 1.8 Hz, 1H), 7.41
	(d, J = 8.8 Hz, 2H), 7.59 (dd, J = 8.8, 1.4 Hz, 2H)
	IR (KBr) 1521, 1470, 1368, 1265, 1177, 1151, 1038, 971, 875 cm ⁻¹

	mp 196-198 °C
	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.76 (s, 3H), 2.07 (s, 3H), 3.31 (s, 3H), 3.65 (s, 3H), 4.55 (d, $J = 6.6 \text{ Hz}$, 2H), 5.49 (t, $J = 1.0 \text{ Hz}$
1.1017	1-1017 6.6 Hz, 1H), 6.43 (s, 1H), 6.65 (dd, J = 8.4, 1.9 Hz, 1H), 6.73 (d, J = 1.9 Hz, 1H), 6.90 (d, J = 8.4 Hz, 1H), 7.55 (d, J = 8.6 Hz.
	2H), 7.66 (d, J = 8.6 Hz, 2H), 8.58 (br. s, 1H), 8.70 (br. s, 1H), 10.02 (s, 1H)
	IR (KBr) 3358, 1661, 1596, 1523, 1489, 1396, 1308, 1254, 1227, 1114, 1074 cm ⁻¹
	mp 141-143 C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 3.40 (s, 3H), 3.64 (d, J = 0.9 Hz, 3H), 4.64 (d, J = 6.9 Hz, 2H), 4.89 (s, 1H),
I-1018	1.1018 5.56 (t, J = 6.9 Hz, 1H), 5.70 (s, 1H), 6.94 (d, J = 8.7 Hz, 2H), 7.06 (t, J = 8.7 Hz, 1H), 7.21 (ddd, J = 8.4, 2.1, 1.1 Hz, 1H).
	7.27 (dd, J = 12.3, 2.1 Hz, 1H), 7.44 (dd, J = 8.7, 1.5 Hz, 2H)
	IR (KBr) 3485, 1523, 1466, 1402, 1266, 1173, 1036, 961, 918, 837, 814 cm. ¹
	mp81-82 °C
	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.81 (s, 3H), 2.26 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 4.64 (d, J =
I-1019	1.1019 = 6.3 Hz, 2H, 5.49 (t, J = 6.3 Hz, 1H), 6.83 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.33.7.39 (m, 2H), 7.48 (s, 1H), 7.82 (d, J = 6.0 Hz
	1H), 7.88 (s, 1H), 8.32 (brs, 1H)
	IR(KBr) 3382, 2939, 1736, 1520, 1483, 1365, 1293, 1178, 1119, 1078, 958, 802, 521 cm ⁻¹
	mp93-94 °C
1.1090	¹ H NMR (CDCl ₃) δ 2.62 (s, 3H), 2.99 (s, 3H), 3.15 (s, 3H), 3.20 (s, 3H), 3.83 (s, 3H), 5.21 (s, 2H), 6.91 (s, 2H), 7.17 (d, J =
	8.2 Hz, 1H), 7.35-7.48 (m, 8H), 7.63 (d, J = 8.4 Hz, 2H)
	IR(KBr) 3434, 3033, 2938, 1611, 1520, 1479, 1366, 1179, 1151, 1085, 969, 850, 793, 519 cm ⁻¹

	mp74-75 ℃
1-1021	¹ H NMR (CDCl ₃) <i>ô</i> 1.76 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 4.61 (d, J = 6.3 Hz, 2H), 5.53 (t, J = 5.4 Hz, 1H), 5.69 (brs, 1H), 5.86 (brs, 1H), 6.42 (s, 1H), 6.83 (d, J = 8.7 Hz, 1H), 6.91-6.98 (m, 2H), 7.04 (s, 1H), 7.62 (d, J = 8.7 Hz, 1H), 7.73 (s, 1H)
	IR(KBr) 3495, 3398, 2935, 1633, 1522, 1487, 1291, 1246, 1112, 1072, 821, 788 cm ⁻¹ mp76-77 °C
I-1022	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 1.84 (s, 3H), 3.52 (s, 3H), 3.78 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 5.74 (brs, 1H), 5.80 (brs, 1H), 6.47 (s, 1H), 6.92-7.00 (m, 2H), 7.04 (s, 1H), 7.38 (d, J = 8.1 Hz, 1H), 7.93 (d, J = 8.1 Hz, 1H), 8.04 (s, 1H)
	IR(KBr) 3411, 2934, 1662, 1519, 1488, 1425, 1309, 1245, 1175, 1128, 1071, 1050 cm ⁻¹ mp81-82 °C
1.1023	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.81 (s, 3H), 2.66 (s, 3H), 2.99 (s, 3H), 3.18 (s, 3H), 3.25 (s, 3H), 3.82 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.49 (t, J = 6.0 Hz, 1H), 6.90 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.38-7.43 (m, 3H), 7.62 (d, J = 8.8 Hz, 1H), 8.02 (s, 1H)
	IR(KBr) 3434, 3027, 2938, 1672, 1611, 1520, 1479, 1365, 1179, 1117, 1074, 970, 847, 793, 519 cm.1
I.1024	mp77-79 °C 1H NMR (CDCl ₃)
1.1025	mp78-79 °C ¹ H NMR (CDCl ₃) δ 2.73 (s, 3H), 2.78 (s, 3H), 3.15 (s, 3H), 3.21 (s, 3H), 3.62 (s, 3H), 5.22 (s, 2H), 7.20 (d, J = 8.4 Hz, 1H), 7.37-7.44 (m, 10H), 7.68 (d, J = 8.8 Hz, 2H)

	mp 158-159 °C
1-1026	"H NMR (CDCI ₃) δ 1.47 (t, J = 6.9 Hz, 3H), 2.41 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H) 4 14 (a, 1 = 6.0 Hz, 9H)
	5.22 (s, 2H), 6.83 (s, 1H), 6.91 (dd, J = 2.1, 8.1 Hz, 1H), 6.96-7.01 (m. 2H), 7.28-7.48 (m. 7H), 7.65, 7.79 (m. 2H)
	IR (KBr) 1517, 1482, 1392, 1362, 1240, 1194, 1175, 1146, 1084, 963, 878, 707, 2001, 111), 1.0011.12 (m, 2H)
	mp 106-107 °C
I-1027	I-1027 14 NMR (CDCl ₃) & 2.27 (s, 6H), 3.87 (s, 3H), 5.20 (s, 2H) 6.93.7 00 (m, 9H) 7.01.7 17 (s, 7H) 2.02.7 17 (s, 7H)
	IR (KBr) 1607, 1522, 1490, 1467, 1455, 1383, 1294, 1267, 1946, 1178, 1185, 1363, 1553, 1552, 1490, 1467, 1455, 1383, 1294, 1267, 1383, 1178, 1178, 1185, 1383, 1594, 1587, 158
	mp 162-163 °C
	¹ H NMR (CDCl ₃) δ 1.45 (t, J = 6.9 Hz, 3H), 3.46 (s. 3H). 3.74 (s. 3H) 4.15 (z. 1 - 6.0 Hz, 91), 2.50 (s. 3H).
I-108	5.91 (s, 1H), 6.45 (s, 1H), 6.88-6.94 (m, 2H), 6.95-7.03 (m, 2H), 7.05 (d, 1 = 1.9 Hz, 1H), 7.97 (m, 2H), 6.95-7.03 (m, 2H), 7.05 (d, 1 = 1.9 Hz, 1H), 7.97 (m, 2H), 6.95-7.03 (m, 2H),
	IR (KBr) 3424, 3343, 1611, 1521, 1488, 1462, 1454, 1400, 1379, 1358, 1317, 1900, 1978, 197
	1127, 1110, 1068, 1026, 1007, 828, 731 cm ⁻¹
	mp 73.74 °C
T.1090	1H NMR (CDCl ₃) & 1.77 (s, 3H), 1.82 (s, 3H), 2.27 (s. 6H), 3.86 (s. 3H), 4.63 (d. 1-7.9 Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz,
2011	2H), 7.00-7.16 (m, 5H), 7.26-7.34 (m, 2H)
	IR (KBr) 1610, 1521, 1489, 1461, 1438, 1297, 1276, 1940, 1931, 1181, 1181, 1261, 200
	mp 86-87 °C
	¹ H NMR (CDCl ₃) δ 1.46 (t, J = 6.9 Hz, 3H), 1.75 (s, 3H), 1.79 (d, J = 0.9 Hz, 3H), 9.54 (z, 3H), 9.54 (z, 3H)
I-1030	3.78 (s, 3H), 4.12 (q, J = 6.9 Hz, 2H), 4.63 (d, J = 6.3 Hz, 2H), 5.53 (m, 1H), 6.4 (2, 11K), 2.6 (a, 3H), 3.56 (a, 3H),
	2H), 7.67-7.73 (m, 2H)
	IR (KBr) 1518, 1480, 1449, 1413, 1389, 1366, 1239, 1199, 1180, 1180, 1269, 220, 220, 220, 220, 220, 220, 220, 22
	, 100, 110, 110, 110, 110, 110, 1082, 970, 872, 798 cm ⁻¹

	mp 145·146 C
	¹ H NMR (CDCl ₃) & 1.44 (t, J = 6.9 Hz, 3H), 1.74 (s, 3H), 1.77 (d, J = 0.9 Hz, 3H), 3.47 (s, 9H), 9.75 (c, 2H), 4.50 (c)
I-1031	Hz, 2H), 4.63 (d, J = 6.6 Hz, 2H), 5.10 (s, 1H), 5.56 (m. 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.80 c, 0.47 (s, 0.11), 0.75 (s, 0.11)
	7.50-7.56 (m, 2H)
	IR (KBr) 3404, 1611, 1520, 1487, 1464, 1442, 1391, 1358, 1993, 1964, 1997, 1994, 1997, 199
	I.
1.1039	¹ H NMR (CDCl ₃) & 3.13 (s, 3H), 3.21 (s, 3H), 4.63 (s, 2H), 4.65 (s, 2H) 5.19 (s, 9H) 7.15 (d, 1 = 0.4 Hz, 111), 2.0 = 2.0 (s, 2H)
7001-1	13H)
	IR (KBr) 3519, 3422, 3380, 3032, 2933, 1611, 1519, 1487, 1364, 1171, 1148, 1166, 625, 625, 625, 625, 625, 625, 625, 6
	mp 103-106 °C
1.1033	¹ H NMR (CDCl ₃ +CD3OD) δ 1.78 (s, 3H), 1.82 (s, 3H), 3.22 (s. 3H), 3.24 (s. 3H), 4.58.4 67 (m. 6H), 5.46.5 (s. 3H), 5.25
	(d, J = 8.4 Hz, 1H), 7.33.7.53 (m, 8H)
	IR (KBr) 3512, 3414, 3012, 2941, 1612, 1519, 1488, 1362, 1335, 1146, 997, 976, 597,
	mp 184-187 °C
1.1034	¹ H NMR (CDCl ₃ +CD3OD) & 1.78 (s, 3H), 1.82 (s, 3H), 4.59-4.65 (m, 6H) 5 59-5 59 (m, 1H) 6 94 6 99 (s, 7H) 7 2 2 2 3
1001	(m, 2H), 7.44 (s, 1H), 7.45 (s, 1H)
	IR (KBr) 3400, 2931, 1611, 1521, 1491, 1247, 1203, 1009, 987, 834 cm.1
	mp 95-96 °C
I-1035	¹ H NMR (CDCl ₃) δ 2.27 (s, 6H), 2.41 (s, 3H), 5.19 (s, 2H), 7.02-7.18 (m, 5H), 7.93.7 54 (m, 6H)
	IR (KBr) 1522, 1512, 1454, 1377, 1309, 1297, 1274, 1267, 1236, 1195, 1008, 877, 888, 748, 567, 1
	mp 95-96 °C
I-1036	I-1036 1H NMR (CDCl ₃) & 2.24 (s, 3H), 2.27 (s, 3H), 5.19 (s, 2H), 6.99-7.15 (m, 5H) 7.96-7.52 (m, 9H)
	IR (KBr) 1518, 1499, 1482, 1454, 1380, 1300, 1278, 1969, 1997, 1195, 1980, 1981, 1982, 1987, 188
	, 100, 100, 100, 100, 100, 100, 100, 10

	mp 58-59 ℃
1.1037	¹ H NMR (CDCl ₃) & 1.77 (d, J = 0.6 Hz, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.27 (s. 6H) 2.41 (s. 3H) 4.63 (d. 1 = 6.11 of otto 2.12)
	(m, 1H), 6.98-7.14 (m, 5H), 7.21-7.29 (m, 4H)
	IR (KBr) 1520, 1490, 1460, 1444, 1385, 1294, 1271, 1262, 1239, 1195, 1001, 898, 818
	mp 67-68 °C
1.1038	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.25 (s, 3H), 9.97 (s, 3H), 4.64 (3, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.95 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 2.25 (s, 3H), 4.64 (s, 1 = 0.0 Hz, 3H), 4.64 (s, 1
0001	6.90-7.14 (m, 5H), 7.26-7.32 (m, 2H), 7.36-7.42 (m, 2H)
	IR (KBr) 1518, 1500, 1482, 1466, 1309, 1999, 1987, 1989, 1184, 1889, 188
	mp 153-155°C
L.1030	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.84 (d. J = 4.2 Hz, 9H) 6.43~6.51 (m. 9H) 6.45 (m. 9H) 6.45 (m. 9H)
2001-1	2H), $6.94 \sim 7.00$ (m, 2H), 7.08 (brs, 1H), 7.53 (d, $J = 8.7$ Hz, 2H)
	IR (KBr) 3411, 1612, 1588, 1523, 1489, 1288, 1945, 1994, 1113, 1070, 1911, 500, 500,
	foam
	¹ H NMR (CDCl ₃) & 3.28 (d, J = 2.4 Hz, 1H), 3.45 (s. 3H), 3.75 (s. 3H), 4.04 (d.d. 1 = 6.0.1 of 1.0 d.d. 2 = 6.0 d.d.d.d.d.d.d.d.d.d.d.d.d.d.d.d.d.d.d
I-1040	1.8 Hz, 1H), 6.27 (dt, J = 11.1, 0
	7.53 (d, $J = 8.7 \text{ Hz}$, 2H)
	IR (KBr) 3433, 3279, 1612, 1588, 1523, 1489, 1286, 1248, 1223, 1113, 1020, 1011, 628, 665
	foam
	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.90 (d, J = 1.8 Hz. 2H) 5 55 (dd J = 10 8 9 4 Hz. 1H) 11.8 Hz. 2H
I-1041	Hz, 1H), 5.85 (ddt, J = 17.7, 10.8, 1.8 Hz, 1H), 6.45 (s. 1H), 6.92 (d. 1 = 8.7 Hz, 9H), 6.97 (d.1 = 9.7 Hz, 9H)
	= 8.4 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3433, 1612, 1589, 1523, 1489, 1286, 1224, 1199, 1119, 1676, 1668, 662, 662, 662, 662, 663, 663, 663, 663
	100, 1002, 937, 825, 815 cm ⁻¹

1.1042	mp 183-187 C 'H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.76 (s, 3H), 3.23 (s, 3H), 3.50 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.50 (t, J = 6.6 Hz, 1H), 6.63 (t, J = 2.4 Hz, 1H), 6.95 (s, 1H), 7.09 (d, J = 8.5 Hz, 1H), 7.26-7.29 (m, 1H), 7.37 (dd, J = 8.5, 2.1 Hz, 1H), 7.45-7.51 (m, 2H), 7.89 (s, 1H), 8.26 (br s, 1H) IR (KBr) 3418, 1473, 1362, 1177, 1079, 961, 817, 796 cm ⁻¹
I-1043	mp 152-154 °C 1H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.43 (s, 3H), 3.76 (s, 3H), 4.61 (d, J = 6.9 Hz, 2H), 5.53 (t, J = 6.9 Hz, 1H), 5.69 (s, 1H), 5.98 (s, 1H), 6.55 (s, 1H), 6.63 (t, J = 2.1 Hz, 1H), 6.94-7.01 (m, 2H), 7.10 (d, J = 0.9 Hz, 1H), 7.25-7.27 (m, 1H), 7.46 (d, J = 8.4 Hz, 1H), 7.51 (dd, J = 8.5, 1.5 Hz, 1H), 7.89 (s, 1H), 8.24 (br s, 1H) 1R (CHCl ₃) 3529, 3480, 1515, 1495, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1201, 1246, 1407, 1246, 1246, 1246, 1246, 1246, 1246, 1246, 1246, 1246, 1246, 1246,
I.104	mp 127-128 °C 'H NMR (CDCl ₃)
l·1045	mp 124-127 °C ¹ H NMR (CDCl ₃) δ 2.46 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 3.91 (s, 3H), 5.21 (s, 2H), 5.42 (br, 1H), 6.82 (s, 1H), 6.90 (dd, J = 1R (CHCl ₃) 3579, 2938 1600 1593 1464 1464 1505 (s, 3H)
I-1046	mp 178·180 °C ¹ H NMR (CDCl ₃) ° 2.44 (s, 3H), 3.29 (s, 3H), 3.58 (s, 3H), 3.78 (s, 3H), 3.91 (s, 3H), 5.22 (s, 2H), 6.83 (s, 1H), 6.99 (dd, J = 8.1, 2.1 Hz, 1H), 6.97·7.25 (m, 2H), 7.31·7.58 (m, 8H) ¹ IR (CHCl ₃) 2939, 2840, 1591, 1519, 1483, 1464, 1374, 1331, 1173, 1141, 1116, 1082, 1012, 964, 863 cm ⁻¹

Table 207

	mp 98-99 °C
1-107	¹ H NMR (CDCl ₃) δ 2.35 (s, 3H), 5.22 (s, 2H), 6.59 (t, J F·H = 54.6 Hz, 2H), 7.09-7.50 (m, 12H), 7.74-7.75 (d, J = 4.5 Hz, 2H)
	IR (CHCl ₃) 1752, 1523, 1493, 1384, 1273, 1169, 1133, 1070, 1037, 916, 951,
	¹ H NMR (CDCl ₃) & 1.75-1.76 (d, J = 0.6 Hz, 3H), 1.78-1.79 (d. J = 0.9 Hz, 3H), 9.57 (s. 2H), 2.52 (s. 2H), 2.52 (s. 2Hz),
I-1048	1.1048 (s, 3H), 4.62.4.64 (d, $J = 7.5$ Hz, 2H), 5.54 (s, 1H), 6.84 (s, 1H), 6.96-6.97 (m, 3H) 7.19.7 18 (m, 9H) 7.50.7 (m, 9
	IR (CHCl ₃) 2938, 1606, 1583, 1519, 1483, 1464, 1443, 1416, 1389, 1368, 1175, 1141, 1083, 1038, 1013, 962, 936, 865, 838
	mp 203-204 C
1 1040	¹ H NMR (CD3OD) & 4.53 (s, 2H), 4.55 (s, 2H), 5.21 (s, 2H), 6.84.6.88 (m, 2H), 7.16.7.2.
6501-1	IR (KBr) 3380, 1611, 1586, 1523, 1490, 1462, 1434, 1380, 1317, 1300, 1958, 1104, 1172, 1162, 162, 1634, 1380, 1317, 1300, 1958, 1104, 1172, 1162, 1631
	817, 787, 730, 693, 646 cm ⁻¹
	mp 99-100 C
	¹ H NMR (CDCl ₃) & 1.75 (s, 3H), 1.78-1.79 (d, J = 0.9 Hz, 3H), 3.46 (s, 3H), 3.75 (s, 9H), 2.69 (s, 2H), 2.60 (s, 2H)
I-1050	Hz, 2H), 5.57 (m, 1H), 5.89 (s, 1H), 6.46 (s, 1H), 6.96-7.02 (m, 3H), 7.12-7.18 (m, 9H), 7.50.7.02 (m, 3H), 7.12-7.18 (m, 9H), 7.50.7.02 (m, 3H), 7.10-7.18 (m, 9H), 7.50.7.02 (m, 9H),
	IR (CHCl ₃) 3513, 2938, 1605, 1583, 1490, 1423, 1407, 1392, 1362, 1318, 1969, 1177, 1158, 1340, 1352, 1362, 1378, 1977, 1158, 1340, 1352, 1362, 1377, 1158, 1340, 1352, 1352, 1362, 1377, 1158, 1340, 1352, 1352, 1362, 1377, 1158, 1340, 1352, 1352, 1362, 1377, 1158, 1340, 1352, 1352, 1362, 1377, 1158, 1340, 1352, 1352, 1362, 1377, 1158, 1340, 1352, 1362, 1362, 1377, 1158, 1340, 1352, 1362, 1362, 1377, 1158, 1340,
	930, 846, 826 cm ⁻¹
	mp 153-154 °C
1.1051	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.79-1.80 (d, J = 0.9 Hz, 3H) 2.57 (s 3H) 3.99 (s 3H) 3.60 (s 2H) 2.67 (s 3H)
<u></u>	3H), $4.62.4.64$ (d, $J = 6.6$ Hz, 2H), 5.54 (m, 1H), 6.84 (s, 1H), $6.96.6.97$ (m, 4H), $7.46.7.50$ (m, 2H), 3.19 (s, 3.19 (s, 3.19),
	IR (CHCl ₃) 2938, 1592, 1519, 1483, 1464, 1374, 1332, 1239, 1173, 1141, 1116, 1082, 1038, 1011, 965, 864, 2001.
	III) 100, 000, 1444, 000, 101

amorphous 1H NMR (CDCl ₃) 1.1052 7.39-7.52 (m, 7H) IR (CHCl ₃) 3597, 939, 835 cm ⁻¹ mp 141-142 °C 1H NMR (CDCl ₃)	amorphous IH NMR (CDCl ₃)
mp 141-1	IR (CHCl ₃) 3597, 3535, 2937, 1731, 1612, 1589, 1522, 1489, 1455, 1401, 1382, 1328, 1309, 1288, 1173, 1128, 1096, 1011, 939, 835 cm ⁻¹
Hz, 2H), 5.30 (d, 11.7, 2.1 Hz, 1H) IR (CHCl ₃) 3578, 902 cm ⁻¹	mp 141-142 °C ¹ H NMR (CDCl ₃)
mp 138-140 °C H NMR (CDC) 7.37-7.47 (m, 5)	mp 138-140 ℃ ¹ H NMR (CDCl ₃) δ 5.17 (s, 2H), 5.60 (s, 1H), 5.72 (s, 1H), 6.98-7.02 (m, 2H), 7.10-7.14 (m, 3H), 7.18 (s, 1H), 7.35 (s, 1H), 1.37-7.47 (m, 5H), 7.59-7.61 (m, 2H)
mp 176-178 °C I-1055 'H NMR (CDC)	3) δ 3.13 (s,
I-1056 J= 8.4 Hz, 1H), IR (KBr) 3600-5	mp 134-136 °C "H NMR (CDCl ₃) \$\delta\$ 1.77 (s, 3H), 1.81 (s, 3H), 3.23 (s, 3H), 3.32 (s, 3H), 4.64 (d, J = 6.9 Hz, 1H), 5.48-5.54 (m, 1H), 7.10 (d, JR (KBr) 3600-2800(br), 1609, 1527, 1504, 1469, 1351, 1289, 1277, 1186, 1171, 1115, 1089, 973, 2001.

ţ

	mp 97-100 °C
-	¹ H NMR (CDCl ₃) δ 1.77 (d, J = 0.9 Hz, 3H), 1.82 (d, J = 0.9 Hz, 3H), 4.63 (d, J = 7.9 Hz, 9H), 5.50, 5.54 (m, 1H), 5.50, A
I-1057	1H), 5.74 (br s, 1H), 6.95 (d, J = 8.7 Hz, 1H), 7.12 (dd, J = 2.4 8.7 Hz, 1H), 7.18 (s.1H), 7.18
	7.42-7.46 (m, 2H), 7.58-7.62 (m, 2H)
	IR (KBr) 3600-2800(br), 1599, 1588, 1528, 1482, 1385, 1326, 1289, 1252, 1919, 1193, 1119, 1004, 1005,
	mp 216-218 °C
I-1058	¹ H NMR (DMSO-d ₆) δ 2.93 (s, 12H), 3.73 (s, 6H), 6.74-6.79 (m. 4H), 6.92 (s. 2H), 7.38.7.43 (m. 4H)
	IR (KBr) 3600-2800(br), 1616, 1533, 1496, 1458, 1442, 1387, 1360, 1930, 1169, 166, 166, 167, 167, 167, 167, 167, 167
	mp 122-123 °C
	¹ H NMR (CDCl ₃) δ 1.74 (d, J = 0.6 Hz, 3H), 1.78 (d, J = 0.6 Hz, 3H) 2.26 (s. 3H) 9.99 (s. 9H) 9.77 (3. 1 = 0.01)
1-1059	4.83 (br, 1H), 5.36-5.41 (m, 1H), 6.61-6.77 (m, 1H), 6.86-6.91 (m, 2H), 6.99-7.04 (m, 9H), 7.10 (2, 1H), 7.11 (1, 1H), 7.11 (1, 1H), 7.11 (1, 1H)
	(m, 2H)
	IR (KBr) 3600-2800(br), 1626, 1608, 1526, 1489, 1428, 1336, 1300, 1959, 1909, 1197,
•	mp foam
1.1060	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 3.76 (d, J = 6.6 H ₂ , 2H), 3.66 (2.20), 5.36 (3.1)
)	1H), 6.66 (d, J = 8.1 Hz, 1H), 6.80 (d, J = 1.8 Hz, 1H), 6.86-6.90 (m. 3H), 7.11 (8.1H), 7.16 (2.1H), 7.95 (7.5 (7.5 (1H)), 7.95 (7.5 (1H)), 7.15 (7.1H), 7.1H
	IR (CHCl ₃) 3600-2800(br), 1730, 1611, 1525, 1489, 1455, 1256, 1171, 1137, 1100, 1035
	mp 191-193 °C
1-1061	¹ H NMR (CDCl ₃) δ 3.01 (s, 6H), 3.79 (s, 3H), 3.80 (s, 3H), 6.79-6.83 (m, 2H) 6.99 (s, 1H) 6.09 (s, 1H) 6.09 (s, 1H)
	8.12 (br s, 1H), 8.26-8.32 (m, 1H)
	IR (KBr) 3600-2800(br), 1712, 1617, 1600, 1536, 1494, 1460, 1446, 1385, 1364, 1965, 1915,
	130, 1212, 1162, 1057, 1035 cm ⁻¹

Table 210

	mp 240.245 °C
I-1062	1H NMR (CDCl ₃) δ 3.82 (s, 6H), 6.95 (s, 2H), 7.41-7.49 (m, 4H) 8 13 (hr s 2H) 8 29 8 35 (m, 1H)
	IR (KBr) 3600-2800(br), 1725, 1598, 1544, 1492, 1381, 1994, 1915, 1107, 1155, 1500, 1000,
	¹ H NMR (CDCl ₃) δ 1.99 (s, 6H), 2.17 (s, 3H), 3.21 (s, 3H), 5.20 (s, 2H) 6.95 . 7.11 (m, 7H), 7.93 (d. 1 – 6.711 cm)
I-1063	7.52 (m, 7H)
	IR (KBr) 1617, 1577, 1513. 1366. 1295. 1267. 1108. 1172. 1140. 1167. 1162.
	¹ H NMR (CDCl ₃) δ 1.99 (s, 6H), 2.17 (s, 3H), 3.21 (s, 3H) 5 18 (d, 1 = 3 0 Hz, 1H), e.org 7 10.7
I-1064	I-1064 $ $ 2H), 7.37 (d, $J = 8.7$ Hz, 2H)
	IR (KBr) 3442, 1620, 1597, 1519, 1472, 1356, 1979, 1174, 1174, 1162, 1
	9U\ 4 OF (1) 4
I-1065	I-1065 1H), 6.96-7.13 (m, 4H), 7.24 (d, $J = 8.7$ Hz, 2H), 7.38 (d. $J = 8.7$ Hz, 9H), 7.38 (d. $J = 8.7$ Hz, 9H)
	IR (KBr)1617, 1576, 1514, 1466, 1359, 1297, 1268, 1304, 1151, 1009
	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.81 (s. 3H), 2.01 (s. 6H), 9.18 (s. 9H), 4.62 (s. 3H), 4.62 (s. 9H)
I-1066	1H), 6.82 - 7.11 (m, 8H)
	IR (KBr) 3433, 1606, 1517, 1466, 1297, 1269, 1921, 1198, 1107, 1604
I-1067	7.14 (m, 4H), 7.34 (d, $J = 8.4 \text{ Hz}$, 2H), 7.42 (d, $J = 8.4 \text{ Hz}$, 2H)
	IR (KBr)3494,3435, 1604, 1517, 1488, 1375, 1327, 1199, 1171, 1148, 1118, 2
	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.82 (s, 3H), 2.25 (s, 3H), 2.28 (s, 6H) 3.20 (s, 3H) A 58 (A 1 - 5.11 of 1)
I-1068	1.1068 $ $ (m, 1H), 6.88 (d, $J = 9.0 \text{ Hz}$, 1H), 7.08 · 7.16 (m, 4H), 7.34 (d, $J = 8.7 \text{ Hz}$, 2H) 742 (d. $J = 8.7 \text{ Hz}$, 9H)
	IR (KBr) 1604, 1513, 1486, 1367, 1238, 1176, 1153, 1131, 1009, 2m.1
	1107, 1004, 0111

Table 211

	1H NMR (CDCl3) & 1.76 (s, 3H), 1.81 (s, 3H), 2.26 (s. 3H), 2.28 (s. 6H) 4 57 (d. 1 – 6.11. 61), 1.81
I-1069	I-1069 (m, 1H), 6.85 · 6.91 (m, 3H), 7.09 · 7.17 (m, 3H), 7.21 · 7.28 (m, 3H)
	IR (KBr) 3436, 1608, 1518, 1488, 1238, 1130, 1008, 2000, 1008, 1238, 1238, 1238, 1008, 2000, 200
I-1070	I-1070 (d, $J=8.7~Hz$, 2H), $7.33-7.51$ (m, 5H)
	IR (KBr) 1608, 1527, 1490, 1355, 1297, 1270, 1262, 1231, 1191, 1093, 200.1
	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 2.30 (s, 3H), 3.01 (s, 6H) 5.09 (s, 1H) 6.90 (d, 1 = 0.11)
I-1071	1-1071 $J = 8.4 \mathrm{Hz}$, 2H)
	IR (KBr) 3432, 1613, 1590, 1526, 1489, 1307, 1283, 1241, 1138, 1111, 2
	(H3 5) 00
I-1072	I-1072 1H), 6.80 (d, J=8.4 Hz, 2H), 6.97-7.16 (m, 5H), 7.27 (d, J=8 14 Hz, 9H)
	mp 182-184 °C
	¹ H NMR (CDCl ₃) δ 1.48 (s, 3H), 1.67 (s, 3H), 1.91 (s, 3H), 3.46 (s, 3H), 2.76 (c, 2H), 2.76 (c, 2H), 2.76 (c, 2H)
1-1073	1-1073 4.59 (m, 1H), 5.23-5.32 (m, 1H), 5.74 (br s, 1H), 6.05 (g 1H), 6.48 (c 1H), 6.02 (c 0.00)
	3H)
	IR (KBr) 3400, 2934, 1625, 1523, 1396, 1227, 1119, 1077, 1036, 886, 786, 786, 786, 786, 786, 786, 78
	mp 153-154 °C
1.1074	¹ H NMR (CDCl ₃) & 1.74 (s, 3H), 1.78 (s, 3H), 2.30 (s. 3H), 2.31 (s. 3H), 3.75 (d. 1 - 6.51), 2.10
	5.37-5.45 (m, 1H), 6.66 (d, J = 8.4 Hz, 1H), 6.74-6.83 (m. 5H), 6.89 (dd. J = 1.8.9.1 Hz, 1H), 6.74-6.83 (m. 5H), 6.89 (dd. J = 1.8.9.1 Hz, 1H), 6.74-6.83 (m. 5H)
	IR (KBr) 3408, 3389, 3294, 3210, 2919, 2835, 1528, 1495, 1275, 1208, 1032, 856, 826, 2201
	, 1002, 000, 000, 000, 000, 000, 000, 00

Table 212

	mp 168-171 ℃
1.1075	¹ H NMR (CDCl ₃) δ 1.74 (s, 6H), 1.77 (s, 6H), 2.31 (s, 6H), 3.75 (d, J = 6.9 Hz, 4H), 3.86 (s, 6H), 5.37-5.45 (m, 2H), 6.66 (d)
	J = 8.1 Hz, 2H), 6.80 (d, J = 1.8 Hz, 2H), 6.89 (dd, J = 1.8, 8.1 Hz, 2H), 7.16 (s, 1H)
	IR (KBr) 3423, 2968, 2927, 2912, 2849, 1609, 1526, 1498, 1454, 1261, 1209, 1135, 1030, 855, 203, 2001
	mp79-80 °C
1.1076	¹ H NMR (CDCl ₃) δ 2.54 (s, 3H), 3.19 (s, 3H), 3.85 (s, 3H), 5.17 (s, 2H), 5.71 (brs. 1H), 6.93 (d. J = 8 1 Hz, 1H), 7.01-7.07
	(m, 3H), 7.24-7.26 (m, 2H), 7.37-7.43 (m, 7H), 7.66 (d, J = 8.7 Hz, 2H)
	IR(KBr) 3466, 3029, 2939, 2937, 1610, 1520, 1482, 1365, 1246, 1201, 1175, 1150, 1073, 969, 879, 839, 804, 220, 1
	mp151.152 C
1,1077	¹ H NMR (CDCl ₃) δ 4.00 (s, 3H), 4.91 (brs, 1H), 5.24 (s, 2H), 6.89 (d, J = 8.2 Hz, 2H) 7.00 (d, J = 8.0 Hz, 1H) 7.19.7.47 (
1101.1	10H), 7.71 (d, $J = 7.4 \mathrm{Hz}$, 1H), 7.89 (s, 1H)
	IR(KBr) 3422, 1612, 1526, 1491, 1454, 1329, 1287, 1269, 1948, 1171, 1136, 1109, 1019, 267, 1
	mp173-174 °C
1.1078	¹ H NMR (CDCl ₃) δ 3.13 (s, 3H), 4.92 (brs, 1H), 5.19 (s, 2H), 6.88 (d, J = 8.6 Hz. 2H), 7.15-7.26 (m. 4H), 7.35-7.59 (m. 7H)
0.01-1	7.69 (d, J = 9.4 Hz, 1H), 7.86 (s, 1H)
	IR(KBr) 3426, 1613, 1527, 1489, 1435, 1361, 1330, 1294, 1243, 1164, 1118, 1070, 678, 891, 2001, 1000
	mp168-169 °C
1.1079	¹ H NMR (CDCl ₃) δ 3.20 (s, 3H), 3.99 (s, 3H), 5.22 (s, 2H), 6.89 (d, J = 8.8 Hz. 1H), 7.11.7 15 (m, 2H), 7.31.7 49 (m, 10H)
	$7.73 ext{ (d, J} = 7.4 ext{ Hz, 1H)}, 7.90 ext{ (s, 1H)}$
	IR(KBr) 3434, 1603, 1524, 1488, 1369, 1335, 1244, 1178, 1143, 1119, 1006, 871 cm. 1
	110 10 1000 (222)

	ე 69-89dw
1.1080	¹ H NMR (CDCl ₃) δ 3.13 (s, 3H), 3.19 (s, 3H), 5.19 (s, 2H), 7.18 (d, J = 8.6 Hz, 2H), 7.26.7 59 (m. 11H) 7.73 (d. J = 9.9 Hz.
0001	1H), 7.89 (s, 1H)
	IR(KBr) 3431, 3034, 2938, 1613, 1524, 1487, 1367, 1330, 1293, 1242, 1175, 1151, 1119, 679, 679, 679, 679, 679, 679, 679, 67
	mp74-76 °C
1.1081	¹ H NMR (CDCl ₃) & 1.78 (s, 3H), 1.84 (s, 3H), 3.51 (s, 3H), 4.64 (d, J = 5.6 Hz, 2H), 5.08 hrs 2H), 5.49.554 (m, 1H), 5.75
1001	(brs, 1H), 5.85 (brs, 1H), 6.14 (s, 1H), 6.89-7.12 (m, 5H), 7.53 (d, J = 8.4 Hz, 2H)
	IR(KBr) 3444, 2934, 1612, 1523, 1485, 1403, 1360, 1951, 1179, 1006, 671, 627, 597
	mp71-72 C
1,1089	¹ H NMR (CDCl ₃) δ 2.46 (s, 3H), 3.20 (s, 3H), 3.86 (s, 3H), 3.91 (s, 3H) 5.21 (s, 2H) 6.87.7.03 (m, 3H) 7.11 (s, 1H) 7.01
7001-1	7.41 (m, 8H), 7.67 (d, J = 8.8 Hz, 2H)
	IR(KBr) 3434, 3028, 2936, 1609, 1521, 1482, 1365, 1939, 1176, 1074, 969, 969, 964, 11
	mp73.74 C
1.1083	¹ H NMR (CDCl ₃) δ 2.66 (s, 3H), 3.13 (s, 3H), 3.20 (s, 3H), 5.86 (s, 3H), 5.19 (s, 2H) 7.08 (d, $l = 1.6$ Hz, $l = 1.6$ Hz
	Hz, 1H), 7.21-7.28 (m, 2H), 7.37-7.42 (m, 8H), 7.66 (d, J = 8.4 Hz, 2H)
	IR(KBr) 3432, 3031, 2938, 1610, 1523, 1480, 1365, 1176, 1151, 1074, 970, 975, 907, 504, 1, 1
	mp110-111 °C
1.1084	¹ H NMR (CDCl ₃) δ 1.78 (s, 3H), 1.81 (s, 3H), 3.21 (s, 3H), 3.98 (s, 3H), 4.67 (d. J = 6.6 H ₇ 9H) 5.57 (t. 1 - c.9 u
•	7.01 (d, $J = 8.0 \text{ Hz}$, 1H), 7.15-7.21 (m, 2H), 7.28-7.45 (m, 4H), 7.76 (d. $J = 7.6 \text{ Hz}$, 1H), 7.93 (s. 1H) 8.03 (c. 1U)
	IR(KBr) 3434, 3010, 2931, 1524, 1488, 1368, 1336, 1247, 1173, 1149, 1191, 1007, 871, 559, 2011, 300, 301, 301,
	, 1121, 1001, 011, 302 cm.

1-1085	mp147-148 °C 'H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.96 (s, 3H), 4.65 (d, J = 6.3 Hz, 2H), 4.91 (brs, 1H), 5.55 (t, J = 5.7 Hz, 1H), 6.88 (d, J = 8.1 Hz, 2H), 6.99 (d, J = 8.4 Hz, 1H), 7.12-7.26 (m, 4H), 7.36 (d, J = 8.1 Hz, 1H), 7.89 (s, 1H) 1R(KBr) 3450, 2938, 1612, 1524, 1490, 1436, 1340, 1950, 1930, 1
1.1086	mp134-135 °C "H NMR (CDCl ₃) δ 1.77 (s 6.87 (d, J = 8.7 Hz, 2H), 6.96 1H), 7.89 (s, 1H)
I·1087	mp156-157 °C 'H NMR (CDCl ₃) \$\delta\$ 1.78 (s, 3H), 1.81 (s, 3H), 3.82 (s, 3H), 3.89 (s, 3H), 4.65 (d, J = 6.2 Hz, 2H), 4.95 (brs, 1H), 5.22 (brs, 1H), 5.58 (t, J = 6.0 Hz, 1H), 6.73 (s, 1H), 6.87-7.00 (m, 6H), 7.53 (d, J = 8.4 Hz, 2H) IR(KBr) 3394, 2934, 1610, 1526, 1499, 1455, 1402, 1240, 1221, 1139, 1099, 894, 815 cm ⁻¹
1.1088	mp69-70 °C ¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.83 (s, 3H), 3.80 (s, 3H), 4.63 (d, J = 7.0 Hz, 2H), 4.93 (brs, 1H), 5.22 (brs, 1H), 5.52 (t, J = 7.0 Hz, 1H), 5.78 (brs, 1H), 6.70 (d, J = 1.6 Hz, 1H), 6.83-7.01 (m, 6H), 7.51 (d, J = 8.8 Hz, 2H) ¹ R(KBr) 3411, 2933, 1611, 1526, 1492, 1453, 1263, 1242, 1220, 1190, 1172, 1006, 907, 909.
I.1089	mp 160-161 °C 1H NMR (CDCl ₃) δ 1.39 (d, J = 6.0 Hz, 6H), 2.40 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 4.55 (m, 1H), 5.20 (s, 2H), 6.83 (s, 1H), 6.93 (dd, J = 1.8, 8.1 Hz, 1H), 7.01 (d, J = 8.1 Hz, 1H), 7.01 (d, J = 1.8 Hz, 1H), 7.28-7.48 (m, 7H), 7.66-7.72 (m, 1R (KBr) 1515, 1480, 1463, 1391, 1363, 1239, 1192, 1176, 1149, 1082, 1019, 669, 673, 603
	, 100 cm 1 cm 1, 100 cm 1,

Table 215

	mp 154.155 °C
1.1090	14 NMR (CDCl3) & 2.59 (s, 3H), 3.21 (s, 3H), 3.54 (s, 3H), 3.77 (s, 3H), 5.23 (s, 9H), 6.84 (s, 1H), 7.05 (3, 1 - 5.11)
	7.24-7.50 (m, 9H), $7.65-7.71$ (m, 2H)
	IR (KBr) 1513, 1479, 1365, 1267, 1239, 1178, 1150, 1070, 971, 950, 977, 507,
	mp 137-138 °C
1601-1	¹ H NMR (CDCl ₃) δ 1.38 (d, J = 6.3 Hz, 6H), 3.46 (s, 3H), 3.74 (s. 3H), 4.54 (m. 1H), 4.96 (s. 1U), 5.17 (s. 3H)
	6.45 (s, 1H), 6.89-6.94 (m, 2H), 7.00-7.11 (m, 3H), 7.27-7.41 (m, 3H), 7.45-7.56 (m, 4H)
	mp 75-76 °C
I-1092	¹ H NMR (CDCl ₃) δ 1.37 (d, J = 5.8 Hz, 6H), 1.75 (s, 3H), 1.79 (s, 3H), 2.53 (s, 3H), 3.91 (s, 9H), 9.62 (s, 9H), 6.52 (s, 9H), 6.53 (s, 9H), 9.62 (s, 9H), 6.62 (s, 9H
	4.51 (m, 1H), 4.61 (d, J = 6.6 Hz, 2H), 5.52 (m, 1H), 6.84 (s, 1H), 6.96-7.02 (m, 3H), 7.34-7.42 (m, 2H), 7.65-7.74 (m, 2H)
	mp 119-120 °C
	¹ H NMR (CDCl ₃) δ 1.37 (d, J = 6.3 Hz, 6H), 1.73 (s, 3H), 1.77 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 2.77 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 2.77 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 3.77 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 3.77 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 3.77 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 3.77 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 3.47 (d. J = 0.9 Hz, 3H), 3.46 (c. 2H), 3.47 (d. J = 0.9 Hz, 3H), 3.47 (d. J = 0.9 Hz, 3H), 3.46 (c. 2Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3Hz, 3
I.1093	4.61 (d, J = 6.6 Hz, 2H), 5.14 (s, 1H), 5.54 (m, 1H), 5.93 (s, 1H), 6.46 (s, 1H), 6.89-6.95 (m, 2H), 6.98 (d. J = 8.1 Hz, 1H)
	7.01:7.07 (m, 2H), 7.50-7.56 (m, 2H)
	mp 150-151 °C
I-1094	¹ H NMR (CDCl ₃) & 3.44 (s, 3H), 3.75 (s, 3H), 4.90 (s, 1H), 5.20 (s, 2H), 5.99 (s, 1H), 6.44 (s, 1H), 6.88 6.05 (m, 2H), 7.64 (s, 1H)
	J = 8.4 Hz, 1H), 7.29-7.44 (m, 4H), 7.47-7.56 (m, 5H)
	IR (KBr) 3410, 1610, 1519, 1484, 1463, 1455, 1410, 1382, 1359, 1285, 1264, 1299, 1118, 1074, 1060, 1014, 202
I-1095	1H NMR (CDCl ₃) δ 0.96 (s, 3H), 0.98 (s, 3H), 1.53-1.82 (m, 3H), 2.99 (s, 6H), 3.20 (t, 1 = 7.9 Hz, 9H), 9.76 (s, 9H), 9.76 (s, 9H)
	3H), 3.87 (br., 1H), 6.71-6.83 (m, 3H), 6.92 (s, 1H), 6.94 (s 1H), 7.23-7.31 (m, 9H), 7.47-7.59 (m, 9H), 7.47-7.50 (m, 9H)
	(HZ, M) 7.6.1.7, 1.40.1.01 (III, 411), 1.41.1.132 (M, ZH)

Table 216

	mp 87-89 °C
1.1096	¹ H NMR (CDCl ₃) δ 1.70 (s, 3H), 1.75 (s, 3H), 2.82 (s, 3H), 3.00 (s, 3H), 3.74-3.80 (m, 2H), 3.78 (s, 3H), 3.80 (s, 3H), 5.29-5.34 (m, 1H), 6.79-6.83 (m, 2H), 6.92-6.97 (m, 3H), 7.25 ₋ 7.34 (m, 2H), 7.47-7.52 (m, 2H)
	mp 167-169 °C
1-1097	¹ H NMR (CDCl ₃) δ 2.92 (s, 3H), 3.00 (s, 6H), 3.78 (s, 3H), 3.79 (s, 3H), 4.02 (br, 1H), 6.71-6.83 (m, 3H), 6.92 (s, 1H), 6.95 (s, 1H), 7.25-7.32 (m, 2H), 7.47-7.52 (m, 2H)
	2800(br), 1625
I-1098	mp 114-115 °C mp 114-115 °
	IR (KBr) 1519, 1501, 1483, 1454-1310, 1995-1963-1969-1160, 200-7, 160-7,
	mp 68-69 °C
I-1099	¹ H NMR (CDCl ₃) δ 1.62 (br s, 1H), 1.77 (s, 3H), 1.82 (s, 3H), 2.27 (s, 3H), 2.28 (s, 3H) 4 64 (d, 1 - 6 9 U ₂ of 1), 1.72 (s, 3H)
-	2H), 5.56 (m, 1H), 7.00-7.16 (m, 5H), 7.33-7.48 (m, 4H) IR (KBr) 3433 1599 1400 1984 1994 1995 1995 1995 1995 1995 1995 199
	mp 68-69 °C
I-1100	¹ H NMR (CDCl ₃) & 1.62 (br s, 1H), 1.77 (s, 3H), 1.82 (s, 3H), 2.27 (s, 3H), 2.98 (s, 9H), 4.64 (3, 1, 2.27)
	2H), 5.56 (m, 1H), 7.00-7.16 (m, 5H), 7.33-7.48 (m, 4H)
	IR (KBr) 3433, 1522, 1490, 1384, 1311, 1996, 1966, 1939, 1184, 1185, 1188, 118
	123, 123, 1230, 1230, 1232, 1134, 1122, 1013, 992, 841, 818, m.1

Table 217

	mp 171 °C
	H NMR (CDCl ₃) 8 1.77 (s, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.68 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 4.65 (d, 1 - 6.6)
I-1101	I.1101 Hz, 2H), 5.53 (m, 1H), 6.84 (s, 1H), 7.03 (d, $J = 8.7$ Hz, 1H), 7.29 (dd, $J = 2.1$, 8.7 Hz, 1H), 7.36-7.41 (m, 2H), 7.46 (d. $J = 9.1$
	Hz, 1H), 7.66-7.72 (m, 2H)
	IR (KBr) 1510, 1477, 1376, 1358, 1349, 1294, 1237, 1196, 1173, 1145, 1077, 1004, 959, 951, 951
	mp 168-169 °C
	¹ H NMR (CDCl ₃) δ 1.76 (d, $J = 0.3$ Hz, 3H), 1.80 (d, $J = 0.9$ Hz. 3H), 3.44 (s. 3H), 3.75 (s. 9H), 4.64 (3. 1 = 0.01)
I-1102	$1.1102 \mid (s, 1H), 5.55 \mid (m, 1H), 6.00 \mid (s, 1H), 6.45 \mid (s, 1H), 6.89.6.95 \mid (m, 2H), 7.01 \mid (d, 1 = 8.4 Hz, 1H), 7.92 \mid (1.1 + 2.2 + 2.1 + 2$
,	(d, J = 2.1 Hz, 1H), 7.51-7.56 (m, 2H)
	IR (KBr) 3396, 1613, 1521, 1485, 1467, 1440, 1408, 1384, 1357, 1986, 1984, 1986, 1110, 1986, 1987, 1986, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1988, 1984, 1987, 1988, 1984, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1987, 1988, 1984, 1988, 1984, 1984, 1988, 1984, 1984, 1988, 1984, 198
•	mp 176-177 °C
1.1103	1H NMR (CDCl ₃) & 1.77 (s, 3H), 1.80 (s, 3H), 2.09 (s, 3H), 2.16 (s. 3H), 3.87 (s. 3H), 4.65 (d. 1-7.9 uz. off), 2.16 (s. 3H), 3.87 (s. 3H), 4.65 (d. 1-7.9 uz. off), 2.16
	5.06 (s, 1H), 5.40-5.60 (m.1H), 6.76 (s, 1H), 6.82-6.91 (m. 4H), 7.02 (d. 1 = 7 g Hz, 1H), 7.92 d. 3 = 7.2 Hz, 2H), 4.78 (br s, 1H),
	IR (CHCl3) 3597, 3533, 3026, 3010, 2921, 1731, 1612, 1520, 1488, 1940, 1179
	mp 185-186 °C
I-1104	¹ H NMR (CDCl ₃) & 1.78 (s, 3H), 1.82 (s, 3H), 2.06 (s, 3H), 2.15 (s, 3H), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (c, 11), 4.66 (d, 1 = 6.9 Hz, 9H), 4.71 (d
• • •	5.53-5.58 (m, 1H), 6.75 (s, 1H), 6.86-6.91 (m, 2H), 6.90-7.00 (m, 3H), 7.21-7.26 (m, 9H)
	IR (CHCl ₃) 3691, 3598, 3546, 3068, 2922, 1674, 1613, 1520, 1488, 1968, 1969, 1165,
	mp 143-144 °C
I.1105	¹ H NMR (CDCl ₃) & 2.48 (s, 3H), 3.21 (s, 3H), 3.52 (s, 3H), 3.67 (d, J= 1.2 H ₂ 3H), 3.92 (c, 2H), 5.92 (c, 2H)
	3H), 7.31-7.48 (m, 7H), 7.60 (dd, J = 8.7, 1.5 Hz, 2H)
	IR (KBr) 1519, 1470, 1370, 1256, 1173, 1152, 1029, 879 cm. 1

1-1106 11 (KBr) 1519, 136, 1.76 (s, 3H), 1.80 (s, 3H), 2.59 (s, 3H), 3.21 (s, 3H), 3.53 (s, 3H), 3.67 (d, J = 0.9 Hz, 3H), 3.90 (s, 3H), 1.1106 11 (KBr) 1519, 1361, 1258, 1175, 1148, 1041, 978, 874 cm² 12 (d, J = 6.9 Hz, 2H), 5.56 (t, J = 6.9 Hz, 1H), 6.97.700 (m, 3H), 7.41 (d, J = 8.8 Hz, 2H), 7.60 (dd, J = 8.8, 1.1 Hz, 2H) 13 (KBr) 1519, 1361, 1258, 1175, 1148, 1041, 978, 874 cm² 14 NMR (CDCl ₃) \(\delta \), 1.76 (s, 3H), 1.79 (s, 3H), 3.43 (s, 3H), 3.63 (d, J = 0.9 Hz, 3H), 3.89 (s, 3H), 4.65 (d, J = 6.8 Hz, 2H) 14 NMR (CDCl ₃) \(\delta \), 2.25 (s, 3H), 2.27 (s, 3H), 3.20 (s, 3H), 5.22 (s, 2H), 7.02 (d, J = 8.4 Hz, 1H), 7.10 (s, 1H), 7.11 (s, 1H), 18 (dd, J = 2.1, 8.4 Hz, 1H), 7.31.754 (m, 10H) 15 (dd, J = 2.1, 8.4 Hz, 1H), 7.31.754 (m, 10H) 16 (KBr) 1513, 1484, 1369, 1284, 1243, 1175, 1150, 1061, 984, 968, 868, 847, 791, 718 cm² 17 (dm, 7H), 7.31.751 (m, 10H) 18 (KBr) 3449, 1521, 1492, 1470, 1455, 1394, 1294, 1279, 1247, 1232, 1199, 1185, 1129, 1013, 740, 698 cm² 17 (dm, 7H), 7.31.751 (m, 10H) 18 (KBr) 3349, 1521, 1492, 1470, 1455, 1394, 1294, 1279, 1247, 1232, 1199, 1185, 1129, 1013, 740, 698 cm² 18 (KBr) 3335, 1601, 1519, 1485, 1485, 1485, 1289, 1255, 1169, 1069, 898 R8, 813, 731, 731, 731, 731, 731, 731, 731, 7		inp 128·130 °C
mp 168-170 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 3 ^{5.01} (s, 1H), 5.57 (t, J = 6.8 Hz ¹ R (KBr) 3433, 1523, 1464, 139 mp 127-128 °C ¹ H NMR (CDCl ₃) δ 2.25 (s, 3 ^{7.18} (dd, J = 2.1, 8.4 Hz, 1H), 7 ¹ R (KBr) 1513, 1484, 1369, 128 mp 161-162 °C ¹ H NMR (CDCl ₃) δ 2.26 (s, 3) ^{7.16} (m, 7H), 7.31-7.51 (m, 10F) ¹ R (KBr) 3449, 1521, 1492, 147 mp 133-134 °C ¹ H NMR (CDCl ₃) δ 2.26 (s, 6] (s, 1H), 7.15-7.52 (m, 9H) ¹ R (KBr) 3350, 1601, 1519, 148	1.1106	
1H NMR (CDCl ₁) δ 1.76 (s, 3 5.01 (s, 1H), 5.57 (t, J = 6.8 Hz IR (KBr) 3433, 1523, 1464, 139 mp 127-128 ℃ 1H NMR (CDCl ₃) δ 2.25 (s, 3 7.18 (dd, J = 2.1, 8.4 Hz, 1H), 7 IR (KBr) 1513, 1484, 1369, 128 mp 161-162 ℃ 1H NMR (CDCl ₃) δ 2.26 (s, 3) 7.16 (m, 7H), 7.31-7.51 (m, 10F) IR (KBr) 3449, 1521, 1492, 147 mp 133-134 ℃ 1H NMR (CDCl ₃) δ 2.26 (s, 6l (s, 1H), 7.15-7.52 (m, 9H) IR (KBr) 3350, 1601, 1519, 148		mp 168-170 °C
	I-117	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.43 (s, 3H), 3.63 (d, J = 0.9 Hz, 3H), 3.89 (s, 3H), 4.65 (d, J = 6.8 Hz, 2H), 5.01 (s, 1H), 5.57 (t, J = 6.8 Hz, 1H), 5.65 (s, 1H), 6.90-7.06 (m, 5H), 7.43 (dd, J = 8.7, 1.5 Hz, 2H)
		mp 127-128 °C
	1.1108	¹ H NMR (CDCl ₃) δ 2.25 (s, 3H), 2.27 (s, 3H), 3.20 (s, 3H), 5.22 (s, 2H), 7.02 (d, J = 8.4 Hz, 1H), 7.10 (s, 1H), 7.11 (s, 1H
		IR (KBr) 1513, 1484, 1369, 1284, 1243, 1175, 1150, 1061, 984, 968, 868, 847, 791, 718 cm. 1
	I-1109	¹ H NMR (CDCl ₃) & 2.26 (s, 3H), 2.28 (s, 3H), 5.16 (s, 2H), 5.19 (s, 2H), 5.70 (br s. 1H) 6.82 (dd 1 - 9.1.9.1111
		7.16 (m, 7H), 7.31-7.51 (m, 10H) IR (KBr) 3449 1591 1409 1470 1477 1000
		mp 133-134 °C
(s, 1H), 7.15-7.52 (m, 9H) IR (KBr) 3350, 1601, 1519, 1485, 1453, 1387, 1289, 1255, 1169, 1060-839-813-731 cm. 1	I-110	¹ H NMR (CDCl ₃) δ 2.26 (s, 6H), 4.80 (br s, 1H), 5.21 (s, 2H), 6.85-6.93 (m. 2H) 7.02 (d. 1 – 9.4 uz. 11), 7.02 (d. 1 –
IR (KBr) 3350, 1601, 1519, 1485, 1453, 1387, 1289, 1255, 1169, 1060, 839, 813, 731, 231, 231, 231, 231, 231, 231, 231, 2		(s, 1H), 7.15-7.52 (m, 9H)
		IR (KBr) 3350, 1601, 1519, 1485, 1453, 1387, 1289, 1255, 1169, 1060, 839, 813, 731 cm.1

	mp 83-84 C
	1H NMR (CDCl ₃) & 1.78 (d, J = 0.3 Hz, 3H), 1.82 (d, J = 0.9 Hz, 3H), 2.26 (s. 3H), 2.27 (s. 3H), 3.90 (s. 3H), 4.65 (d. 1 = 0.5)
[·1111]	I. 1111 Hz, 2H), 5.55 (m, 1H), 6.99 (d, J = 8.4 Hz, 1H), 7.11 (s. 1H), 7.12 (s. 1H), 7.19 (d. 1 - 9.1 g.4 Hz, 1H), 7.20 (d. 3 = 6.6
	1H), $7.32-7.43$ (m, 4H)
	IR (KBr) 1514, 1485, 1364, 1286, 1253, 1197, 1178, 1156, 1057, 976, 889, 851, 200-1
	mp 86-87 °C
	¹ H NMR (CDCl ₃) δ 1.77 (d, $J = 0.6$ Hz, 3H), 1.82 (d, $J = 0.9$ Hz, 3H) 2.27 (s, 6H) 4.65 (d, $J = 6.6$ Hz, 9H) 5.00 (2, 11), 7.7 (
I.1112	I-1112 (m, 1H), 6.86-6.92 (m, 2H), 6.98 (d, J = 8.4 Hz, 1H), 7.10 (s. 1H), 7.11 (s. 1H), 7.90 (dd 1 = 9.1 o. 1H - 111), 2.00 (s. 1H), 7.10 (s.
	2H), 7.38 (d, J = 2.1 Hz, 1H)
	IR (KBr) 3339, 1608, 1530, 1492, 1429, 1362, 1288, 1258, 1232, 1213, 1189, 1112, 889, 783, cm. 1
	amorphous
1.1113	1H NMR (CDCl3) & 1.76 (s, 3H), 3.32 (s, 6H), 3.44 (s, 3H), 3.74 (s, 3H), 5.23 (s, 2H), 7.09 (s, 1H), 7.14, 7.90 (m, 2H), 7.90 (m, 2H)
	J = 8.7 Hz, 1H), 7.32-7.55 (m, 7H), 7.72 (d, $J = 8.4 Hz$, 2H), 9.22 (s, 1H)
	IR (KBr) 3382, 1684, 1518, 1469, 1365, 1237, 1150, 1017, 972, 879, 815, 200-1
	mp 173-175 °C
	¹ H NMR (CDCl ₃) & 1.76 (s, 3H), 1.81 (s, 3H), 1.97 (s, 3H), 3.19 (s, 6H), 3.21 (s, 3H), 3.37 (c, 2H), 3.75 (c, 2H)
I-1114	I-1114 \mid 6.9 Hz, 2H), 5.50 (t, J = 6.9 Hz, 1H), 6.85 (m, 2H), 7.06 (d, J = 8.4 Hz, 1H) 7.95 (m, 1H) 7.97 (
	2H)
	IR (KBr) 3421, 1518, 1470, 1366, 115, 1107, 970, 814 cm.1
	(0.0) (0.0) (0.0) (0.1)

	mp 96-98 °C
	¹ H NMR (DMSO-d ₆) § 1.72
	6.3 Hz, 1H), 6.17 (s, 1H), 6.59 1H), 7.42 (d, J = 8.7 Hz, 2H), 8
	IR (KBr) 3431, 3396, 3319, 1611, 1521, 1486, 1264, 1172, 1111, 987, 826 cm. 1
<u>.</u>	mp 186-188 C
•	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.76 (s, 6H), 3.28 (s, 3H), 3.68 (s, 3H), 4.54 (d, $J = 6.6$ Hz 2H) 5.48 (t. 1 – 6.6 u., 11)
1.1116	(m, 1H), 6.65 (d, J =
	(br s, 1H)
	IR (KBr) 3429, 1652, 1611, 1519, 1474, 1250, 1080, 1018, 981, 836 cm. 1
	mp 210-213 °C
I.1117	¹ H NMR (CDCl ₃) & 3.48 (s, 3H), 3.77 (s, 3H), 5.16 (s, 2H). 5.71 (s, 1H) 5.85 (c, 1U) 6.48 (c, 11) 6.25 (c, 11) 6.48 (c, 11) 6.4
-	Hz, 1H), 7.04 (d, $J = 8.4$ Hz, 1H), 7.07 (d, $J = 2.1$ Hz, 1H) 7.40.7 48 ($m = 6.1$), 7.04 ($m = 6.4$), 1.05 ($m = 6.4$), 2.1
	IR (KBr) 3499, 1511, 1343, 1284, 1247, 1195, 1109, 1070, 1013, 211), 633 (a, $J = 9.0$ Hz, 2H), 8.32 (d, $J = 9.0$ Hz, 2H)
	mp 156-158 °C
1.1118	1H NMR (CDCl3) & 2.67 (s, 3H), 3.14 (s, 3H), 3.56 (s. 3H), 3.80 (s. 3H) 5.90 (s. 9H) 6.97 (s. 9H)
	7.32-7.48 (m, 7H), 7.82 (d, J = 9.2 Hz, 2H), 8.32 (d, J = 9.2 Hz, 2H)
	IR (KBr) 1518, 1479, 1350, 1177, 1119, 1079, 947, 816 cm. ¹
	mp 173.175 ℃
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H), 2.67 (s, 3H)
I-1119	5.50 (t, J = 6.7 Hz, 1H), 6.87 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.35 (d, J = 8.4 p. 1 m, 7.35)
•	= 9.0 Hz, 2H), 8.32 (d, J = 9.0 Hz, 2H)
	IR (KBr) 1519, 1479, 1360, 1178, 1075, 946, 850, 700, 200.1
	1000, 1000, 010, 000, (39 cm.

	mp 191-193 °C
1.1120	
	IR (KBr) 3492, 1588, 1511, 1482, 1345, 1283, 1244, 1116, 1069, 1010 cm ⁻¹ mp 135-138 ℃
1-1121	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.61 (s, 3H), 3.67 (s, 3H), 3.73 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.00 (br. s, 1H), 5.50-5.57 (m, 1H), 5.69 (br. s, 1H), 6.65 (s, 1H), 6.86-6.96 (m, 4H), 7.00 (d, J = 1.8 Hz, 1H), 7.48 (d, J = 8.4 Hz, 2H)
	mp 140-142 °C
1-1122	¹ H NMR (CDCl ₃) δ 1.78 (s, 3H), 1.82 (s, 3H), 2.34 (s, 3H), 4.65-4.67 (d, J = 6.9 Hz, 2H), 5.55 (m, 1H), 6.41-6.78 (dt, J F.H = 54.6, 3.3 Hz, 2H), 7.05-7.25 (m, 5H), 7.26-7.45 (m, 2H), 7.75 (m, 2H)
	mp 178-180 °C
1.1123	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.78-1.79 (d, J = 0.6 Hz, 3H), 2.13 (s, 3H), 3.50 (s, 3H), 3.87 (s, 3H), 4.63-4.65 (d, J = 6.6 Hz, 2H), 5.00 (br, 1H), 5.57 (m, 1H), 5.75 (s, 1H), 6.79 (s, 1H), 6.84-7.00 (m, 5H), 7.50-7.53 (m, 2H)
	mp 173-174 °C
1.1124	I-1124 ¹ H NMR (CDCl ₃) § 3.03 (s, 6H), 3.54 (s, 3H), 3.76 (s, 3H), 3.91 (s, 3H), 5.22 (s, 2H), 6.80-6.99 (m, 6H), 7.28-7.58 (m, 7H)
	1442, 1394, 1365, 1174, 1141, 1082, 1037, 1013, 961, 936, 863 cm ⁻¹

	ms 103 106 %
1.1125	TH NMR (CDCl ₃) δ 1.78 (s, 3H), 1.82-1.83 (d, J = 0.9 Hz, 3H), 4.65-4.67 (d, J = 6.9 Hz, 2H), 5.55 (m, 1H), 6.41-6.78 (td, J F.H = 54.9, 2.7 Hz, 2H), 6.94-7.31 (m, 7H), 7.73 (m, 2H) IR (CHCl ₃) 3592-1619-1595-1406-1306-1301-1301-1301-1301-1301-1301-13
I.1126	mp 153-155 °C 'H NMR (CDCl ₃)
	mp 160-161 °C
I-1127	I-1127 (d, J = 8.4 Hz, 1H), 7.31-7.53 (m, 7H)
÷	IR (CHCl ₃) 3594, 3517, 2937, 1731, 1612, 1589, 1522, 1489, 1455, 1400, 1327, 1259, 1240, 1173, 1139, 1102, 1011, 930, 865, 835 cm ⁻¹
	mp 149-150 °C
1:1128	¹ H NMR (CDCl ₃) δ 1.74-1.75 (d, J = 0.9 Hz, 3H), 1.78-1.79 (d, J = 0.9 Hz, 3H), 3.03 (s, 1H), 3.49 (s, 6H), 3.75 (s, 3H), 3.88 s, 3H), 4.62-4.64 (d, J = 6.6 Hz, 2H), 5.57 (m, 1H), 5.95 (s, 1H), 6.49 (s, 1H), 6.81 6.84 (m, 2H), 6.75 (m, 2H), 6.95 (s, 1H), 6.49 (s, 1H), 6.81 6.84 (m, 2H), 6.75 (m, 2H), 6.95 (s, 2H), 6.81 6.84 (m, 2H)
	(m, 2H)
	IR (CHCl ₃) 3509, 2937, 1675, 1610, 1584, 1528, 1492, 1464, 1397, 1362, 1323, 1197, 1175, 1140, 1117, 1078, 1038, 1011, 929, 835 cm ⁻¹
	mp 163·165 ℃
I-1129	¹ H NMR (CDCl ₃) δ 2.15 (s, 3H), 2.47 (s, 3H), 3.20 (s, 3H), 3.55 (s, 3H), 3.90 (s, 3H), 5.92 (s, 9H), 6.92 (13, 12.5), 2.22
	1H), 6.88 (d, J = 2.1 Hz, 1H), 7.00 (d, J = 8.4 Hz, 1H), 7.17 (s, 1H), 7.35-7.47 (m, 7H), 7.66-7.69 (m, 2H)
	118 (CHCl3) 2938, 1604, 1584, 1518, 1478, 1370, 1331, 1241, 1176, 1150, 1010, 987, 937, 872, 846 cm ⁻¹

	mp 142-144 °C
I-1130	¹ H NMR (CDCl ₃)
	7.35-7.38 (m, 2H), 7.67-7.70 (m, 2H)
	IR (CHCl ₃) 1604, 1582, 1517, 1478, 1416, 1970, 1939, 1940, 1952,
	mp 121-123 °C m ⁻¹
1.1131	1H NMR (DMSO-d6) & 1.70 (s, 3H), 1.71 (s, 3H), 3.71-3.75 (m 4H) 3.75 (s 6H) 5.91 5.97 (m 911)
	6.65-6.71 (m, 2H), 6.95 (s, 2H), 7.19-7.29 (m, 4H)
	IR (KBr) 3600-2800(br), 1627, 1536, 1497, 1470, 1454, 1375, 1341, 1967, 1968, 1167, 1627, 1638, 1497, 1470, 1454, 1375, 1341, 1967, 1968, 1167, 1627, 1638, 1497, 1470, 1454, 1875, 1841, 1967, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 1868, 1867, 18680, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 1868, 18680
	mp 169-170 °C
	¹ H NMR (CDCl ₃) & 1.77 (d, J = 0.6 Hz, 3H), 1.81 (d. J = 0.9 Hz, 3H), 9.96 (e. 6H), 4.62 (d. 1 = 0.017), 2.31
I-1132	I-1132 (s, 1H), 5.55 (m, 1H), 6.80 (dd, J = 2.1, 8.1 Hz. 1H), 6.89 (d. 1 = 9.1 Hz. 1H), 6.89 (d. 1 = 9.1 Hz. 1H), 6.89 (d. 1 = 9.1 Hz. 1Hz. 1Hz. 1Hz. 1Hz. 1Hz. 1Hz. 1Hz
•	IR (KBr) 3338, 1619, 1595, 1523, 1492, 1475, 1451, 1427, 1385, 1357, 1309, 1595, 1563, 1563, 1563, 1451, 1427, 1385, 1357, 1309, 1595, 1563, 156
	983, 871, 819, 785 cm ⁻¹
_	mp 135·136 ℃
	¹ H NMR (CDCl ₃) δ 1.14 (t, $J = 6.9$ Hz, 3H), 2.42 (s. 3H) 3.90 (s. 3H) 3.73 (2. 1 - 0.01) (2.10)
I-1133	5.22 (s, 2H), 6.84 (s, 1H), 6.91 (dd, J = 1.8, 8.4 Hz, 1H), 6.98 (d. J = 8.4 Hz, 1H), 6.98 (d. J = 1.9, 8.4 Hz, 1H), 6.98 (d. J = 8.4 Hz, 1H), 6.98
	7.68-7.73 (m, 2H)
	IR (KBr) 1516, 1481, 1381, 1363, 1332, 1238, 1228, 1175, 1147, 1080, 1032, 622, 623, 623
	, 100 m. 1

	mp 154-155 °C
	1H NMR (CDCl3) 8 1.15 (t, J = 7.2 Hz, 3H), 1.75 (d, J = 0.9 Hz, 3H) 1.79 (d, J = 0.9 Hz, 2H) 2.79 (d, J = 0.9 Hz, 3H)
I-1134	1-1134 (q, J = 7.2 Hz, 2H), 3.78 (s, 3H), 3.88 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.54 (m, 1H), 6.85 (c, 1H), 6.65 (c, 1H)
	(m, 2H), 7.68-7.74 (m, 2H)
	IR (KBr) 1519, 1481, 1467, 1365, 1335, 1945, 1931, 1184, 1157, 1991, 1992, 1993, 1993, 1994, 1997, 199
	mp 136-137 °C
	¹ H NMR (CDCl ₃) δ 1.16 (t, J = 6.9 Hz, 3H), 1.74 (s. 3H) 1.78 (s. 3H) 3.61 (z. 1 = 6.0 Hz, 6.1)
1.1135	$4.63 \text{ (d, J = 6.9 \text{ Hz, 2H)}}, 5.03 \text{ (s, 1H)}, 5.57 \text{ (m, 1H)}, 5.99 \text{ (s, 1H)}, 6.46 \text{ (e, 1H)}, 6.90 \text{ (a, 1H)}, 6.90 \text{ (c, 1H)}, 6.90 \text{ (e, 1H)}, 6.90 (e, $
	(d, $J = 1.8 \text{ Hz}$, 1H), 7.02 (dd, $J = 1.8$, 8.7 Hz, 1H), 7.51.7.57 (m. 9H)
	IR (KBr) 3433, 1613, 1522, 1489, 1464, 1443, 1402, 1383, 1364, 1270, 1935, 1914, 1174, 1146, 116, 126, 126, 126, 126, 126, 126, 12
	cm.1
	mp 155-157°C
	¹ H NMR (CDCl ₃) δ 2.05 (t, J = 2.7 Hz, 1H), 2.76 (dt. J = 6.3 2.7 Hz, 9H), 9.77 (c. 9H), 9.91 (c.
1.1136	3H), 3.78 (s, 3H), 4.23 (t, J = 6.3 Hz, 2H), 6.84 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.26 (s, 1H), 7.06 (d, J = 8.4 Hz, 1H), 7.26 (s, 1H), 7.2
	Hz, 2H), 7.41 (d, $J = 2.1$ Hz, 1H), 7.68 (d, $J = 8.7$ Hz, 2H)
	IR (Nujol) 3285, 1608, 1519, 1176, 1151, 1119, 1079, 970, 815, 707, 2011
	foam
	¹ H NMR (CDCl ₃) & 1.83 (s, 3H), 2.58 (t, J = 6.6 Hz, 2H), 2.74 (s, 3H), 3.91 (s, 3H), 2.69 (c, 2H), 2.60 (c, 2H
I-1137	1.1137 $ 4.22 \text{ (t, J} = 6.6 Hz, 2H), 4.84 (brs, 1H), 4.89 (brs, 1H), 6.84 (s. 1H) 7.10 (d. 1 = 8.4 Hz, 1H), 7.00 (d$
	8.7 Hz, 2H), 8.7 Hz, 2H),
	IR (Nujol) 1608, 1519, 1176, 1150, 1119, 1078, 968, 860, 816, 200.1
	, 100, 200, 1010, 200, 000, 010 CM

Table 225

		foam
4.89 (brs, 1H), 6.45 (s, 1H), 6.18 (Nujol) 3531, 3328, 1612, foam 'H NMR (CDCl ₃) δ 2.07 (t, 6.45 (s, 1H), 6.87 ~ 7.10 (m, 5.18 (Nujol) 3482, 3305, 1609, m.p 194·197 ° C 'H NMR (DMSO) δ 3.29 (s) 1H), 6.84 (d, J = 8.6 Hz, 2H), 2H) IR (KBr) 3432, 1611, 1566, 1 foam 'H NMR (CDCl ₃) δ 3.45 (s, 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam 'H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.11 foam 'H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.11 foam 'H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.11 foam 'H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 7.11 foam 'H NMR (CDCl ₃) δ 2.1 Hz, 1H), IR (KBr) 1728, 1519, 1481, 1	[.1138	H NMR (CDCl ₃) δ 1.81 (s, 3H), 2.55 (t, J = 6.6 Hz, 2H), 3.45 (s, 3H), 3.74 (s, 3H), 4.20 (t, J = 6.6 Hz, 2H), 4.85 (brs. 1H)
IR (Nujol) 3531, 3328, 1612, foam 'H NMR (CDCl ₃) δ 2.07 (t, 6.45 (s, 1H), 6.87~7.10 (m, 5 IR (Nujol) 3482, 3305, 1609, m.p 194·197 ℃ 'H NMR (DMSO) δ 3.29 (s 1H), 6.84 (d, J = 8.6 Hz, 2H), 2H) IR (KBr) 3432, 1611, 1566, 1 foam 'H NMR (CDCl ₃) δ 3.45 (s, 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8 = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam 'H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.18 (sh), 7.18 (zh), 7.41 (d, J = 2.1 Hz, 1H), IR (KBr) 1728, 1519, 1481, 1		(O
foam 'H NMR (CDCl ₃) δ 2.07 (t, 6.45 (s, 1H), 6.87~7.10 (m, 5 IR (Nujol) 3482, 3305, 1609, m.p 194·197 ℃ 'H NMR (DMSO) δ 3.29 (s 1H), 6.84 (d, J = 8.6 Hz, 2H), 2H) IR (KBr) 3432, 1611, 1566, 1 foam 'H NMR (CDCl ₃) δ 3.45 (s, 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam 'H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.18 (sh. 17.81 1H), 18 (KBr) 1728, 1519, 1481, 1 HR (KBr) 1728, 1519, 1481, 1 HR (KBr) 1728, 1519, 1481, 1		
1H NMR (CDCl ₃) δ 2.07 (t, 6.45 (s, 1H), 6.87~7.10 (m, 5 IR (Nujol) 3482, 3305, 1609, m.p 194·197 ℃ 1H NMR (DMSO) δ 3.29 (s) 1H), 6.84 (d, J = 8.6 Hz, 2H), 2H) IR (KBr) 3432, 1611, 1566, 1 IR (KBr) 3432, 1611, 1566, 1 IR (KBr) 3423, 1701 (d, J = 8 + 4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 IR (KBr) 3423, 1702, 1684, 1 IR (KBr) 3423, 1702, 1684, 1 IR (KBr) 17.11 (d, J = 2.1 Hz, 1H), 1.11 (KBr) 1728, 1519, 1481, 1 IR (KBr) 1728, 1519, 1481, 1		
6.45 (s, 1H), 6.87~7.10 (m, 5 IR (Nujol) 3482, 3305, 1609, m.p 194-197 °C 'H NMR (DMSO) \$\delta\$ 3.29 (s) 1H), 6.84 (d, J = 8.6 Hz, 2H), 2H) IR (KBr) 3432, 1611, 1566, 1 foam 'H NMR (CDCl ₃) \$\delta\$ 3.45 (s, 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8 = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam 'H NMR (CDCl ₃) \$\delta\$ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.18 2H), 7.41 (d, J = 2.1 Hz, 1H), IR (KBr) 1728, 1519, 1481, 1		1H NMR (CDCl ₃) δ 2.07 (t, J = 2.7 Hz, 1H), 2.72 (dt, J = 6.6, 2.7 Hz, 2H), 3.45 (s, 3H), 3.75 (s. 3H), 4.21 (t. J = 6.6 Hz, 9H)
IR (Nujol) 3482, 3305, 1609, 1597, 1527, 1494, 1253, 1240, 1227, 1127, 1118, 1079, 10 m.p 194-197 °C 'H NMR (DMSO) δ 3.29 (s, 3H), 3.64 (s, 3H), 5.42 (s, 2H), 6.38 (s, 1H), 6.61 (dd, J = 1.1140 'H), 6.84 (d, J = 8.6 Hz, 2H), 6.96 (d, J = 8.2 Hz, 1H), 7.19 (d, J = 7.8 Hz, 1H), 7.41 (d, J = 1.1140 IH), 6.84 (d, J = 8.6 Hz, 2H), 6.96 (d, J = 8.2 Hz, 1H), 7.19 (d, J = 7.8 Hz, 1H), 7.41 (d, J = 8.4 Hz, 1H), 7.10 (d, J = 8.2 Hz, 1H), 7.10 (d, J = 7.8 Hz, 1113, 1071, 814 cm ⁻¹ foam 'H NMR (CDCl ₃) δ 3.45 (s, 3H), d 3.75 (s, 3H), 3.92 (s, 3H), 5.53 (s, 2H), 6.45 (s, 1H), 1.1141 E.1, 8.7 Hz, 1H), 7.01 (d, J = 8.7 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.28 (d, J = 4.8 Hz, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.28 (d, J = 4.8 Hz, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.17 (d, J = 3.6 Hz, 1H), 7.36 (dd, J = 2.H), 7.41 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KB) 1728 1519 1481 1365 1177 1150 1070 050 077 077 1180 1619 1481 1365 1177 1150 1070 050 077 077		6.45 (s, 1H), $6.87 \sim 7.10$ (m, 5H), 7.53 (d, $J = 8.7$ Hz, 2H)
m.p 194-197 C 1H NMR (DMSO) 6 3.29 (s, 3H), 3.64 (s, 3H), 5.42 (s, 2H), 6.38 (s, 1H), 6.61 (dd, J = I-1140) 1H), 6.84 (d, J = 8.6 Hz, 2H), 6.96 (d, J = 8.2 Hz, 1H), 7.19 (d, J = 7.8 Hz, 1H), 7.41 (d 2H) IR (KBr) 3432, 1611, 1566, 1523, 1488, 1430, 1400, 1380, 1241, 1113, 1071, 814 cm ⁻¹ foam 1H NMR (CDCl ₃) 6 3.45 (s, 3H), d 3.75 (s, 3H), 3.92 (s, 3H), 5.53 (s, 2H), 6.45 (s, 1H), 1.1141 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.7 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.28 (d, J = 4.8 Hz, 1] = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1611, 1523, 1489, 1439, 1402, 1282, 1112, 1073, 1010, 814 foam 1H NMR (CDCl ₃) 6 2.74 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), d 3.78 (s, 3H), 1.1142 3.6 Hz, 1H), 6.84 (s, 1H), 7.15 (d, J = 8.7 Hz, 1H), 7.17 (d, J = 3.6 Hz, 1H), 7.36 (dd, J = 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1728, 1519, 1481, 1365, 1177, 1150, 1070, 050, 070, 070, 070, 070, 070, 070,		IR (Nujol) 3482, 3305, 1609, 1597, 1527, 1494, 1253, 1240, 1227, 1127, 1118, 1079, 1010 cm. 1
11.1140 1H), 6.84 (d, J = 8.6 Hz, 2H), 3.64 (s, 3H), 5.42 (s, 2H), 6.38 (s, 1H), 6.61 (dd, J = 1.1140 1H), 6.84 (d, J = 8.6 Hz, 2H), 6.96 (d, J = 8.2 Hz, 1H), 7.19 (d, J = 7.8 Hz, 1H), 7.41 (d 2H) 11.1141 1R (KBr) 3432, 1611, 1566, 1523, 1488, 1430, 1400, 1380, 1241, 1113, 1071, 814 cm ⁻¹ foam 11.1141 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.7 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.28 (d, J = 4.8 Hz, 1H) 12.1, 8.7 Hz, 2H) 13.6 Hz, 2H) 14.6 KBr) 3423, 1702, 1684, 1611, 1523, 1489, 1439, 1402, 1282, 1112, 1073, 1010, 814 foam 14.1142 3.6 Hz, 1H), 6.84 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.17 (d, J = 3.6 Hz, 1H), 7.36 (dd, J = 2.H), 7.41 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) 18. (KBr) 1728 1519 1481 1365, 1177, 1150, 1070, 650, 672, 672, 772, 117, 117, 117, 118, 117, 117, 118, 117, 118, 118		m.p 194·197 °C
I-1140 IH), 6.84 (d, J = 8.6 Hz, 2H), 6.96 (d, J = 8.2 Hz, 1H), 7.19 (d, J = 7.8 Hz, 1H), 7.41 (d 2H) 2H) IR (KBr) 3432, 1611, 1566, 1523, 1488, 1430, 1400, 1380, 1241, 1113, 1071, 814 cm ⁻¹ foam H NMR (CDCl ₃) & 3.45 (s, 3H), d 3.75 (s, 3H), 3.92 (s, 3H), 5.53 (s, 2H), 6.45 (s, 1H), 1.1141 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.7 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.28 (d, J = 4.8 Hz, 1] = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1611, 1523, 1489, 1439, 1402, 1282, 1112, 1073, 1010, 814 foam H NMR (CDCl ₃) & 2.74 (s, 3H), 3.21 (s, 3H), 3.22 (s, 3H), 3.55 (s, 3H), d 3.78 (s, 3H), 1.1142 3.6 Hz, 1H), 6.84 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.17 (d, J = 3.6 Hz, 1H), 7.36 (dd, J = 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1728 1519 1481 1365, 1177 1150, 1070, 0.0		H NMR (DMSO) δ 3.29 (s, 3H), 3.64 (s, 3H), 5.42 (s, 2H), 6.38 (s, 1H), 6.61 (dd, $J = 2.0$ 8.2 Hz 1H) 6.74 (d .1 = 2.0 Hz
2H) IR (KBr) 3432, 1611, 1566, 1523, 1488, 1430, 1400, 1380, 1241, 1113, 1071, 814 cm ⁻¹ foam H NMR (CDCl ₃)	I-1140	1H), 6.84 (d, $J = 8.6$ Hz, 2H), 6.96 (d, $J = 8.2$ Hz, 1H), 7.19 (d, $J = 7.8$ Hz, 1H), 7.41 (d, $J = 7.8$ Hz, 1H) 7.43 (d, $J = 7.8$ Hz, 1H)
IR (KBr) 3432, 1611, 1566, 1 foam H NMR (CDCl3) \(\delta \) 3.45 (s. 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam H NMR (CDCl3) \(\delta \) 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.1 2H), 7.41 (d, J = 2.1 Hz, 1H) IR (KBr) 1728, 1519, 1481, 1H		(HZ
foam 'H NMR (CDCl ₃)		- -1
1H NMR (CDCl ₃) δ 3.45 (s, 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam 1H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.1 2H), 7.41 (d, J = 2.1 Hz, 1H) IR (KBr) 1728, 1519, 1481, 1		
2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam 'H NMR (CDCl ₃)		1H NMR (CDCl ₃) δ 3.45 (s, 3H), d 3.75 (s, 3H), 3.92 (s, 3H), 5.53 (s, 2H), 6.45 (s, 1H), 6.92 (d. J = 8.7 Hz, 2H) 6.94 (dd .1 =
= 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1 foam 'H NMR (CDCl3)		8.7 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.28 (d, J = 4.8 Hz, 1H), 7.52 (d, J = 4.8 Hz, 1H), 7.53
IR (KBr) 3423, 1702, 1684, 1 foam ¹ H NMR (CDCl ₃)		
foam ¹ H NMR (CDCl ₃)		IR (KBr) 3423, 1702, 1684, 1611, 1523, 1489, 1439, 1402, 1282, 1112, 1073, 1010, 814 cm. 1
¹ H NMR (CDCl ₃) δ 2.74 (s, 3.6 Hz, 1H), 6.84 (s, 1H), 7.1 2H), 7.41 (d, J = 2.1 Hz, 1H) IR (KBr) 1728, 1519, 1481, 1		
3.6 Hz, 1H), 6.84 (s, 1H), 7.1 2H), 7.41 (d, J = 2.1 Hz, 1H) IR (KBr) 1728, 1519, 1481, 1		H NMR (CDCl ₃) δ 2.74 (s, 3H), 3.21 (s, 3H), 3.22 (s, 3H), 3.55 (s, 3H), d 3.78 (s, 3H). 3.91 (s, 3H), 5.19 (s, 2H) 6 60 (d, .1 =
2H), 7.41 (d, $J = 2.1$ Hz, 1H), 7.67 (d, $J = 8.7$ Hz, 2H) IR (KBr) 1728 1519 1481 1365 1177 1150 1070 660 676 707		5 (d, $J = 8.4 \text{ Hz}$, 1H), 7.17 (d, $J = 3.6 \text{ Hz}$, 1H), 7.36 (dd, $J = 2.1 \text{ 8.4 Hz}$, 1H), 7.38 (d. $J = 8.7 \text{ Hz}$
_		2H), 7.41 (d, $J = 2.1 \text{ Hz}$, 1H), 7.67 (d, $J = 8.7 \text{ Hz}$, 2H)
٠,		IR (KBr) 1728, 1519, 1481, 1365, 1177, 1150, 1079, 969, 876, 797 cm ⁻¹

Table 226

_	
	foam
	¹ H NMR (CDCl ₃) δ 2.77 (s, 3H), 3.21 (s, 3H), 3.23 (s, 3H), 3.56 (s, 3H), d 3.78 (s, 3H), 4.18 (m, 2H), 4.78 (m, 2H), 5.94 (m,
I-1143	1.1143 2H), 6.84 (s, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.36 (dd, J = 2.1, 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1 Hz, 1H)
	7.67 (d, J = 8.7 Hz, 2H)
	IR (KBr) 1609, 1519, 1481, 1367, 1177, 1150, 1079, 970, 876, 797 cm. ¹
	foam
	¹ H NMR (CDCl ₃) δ 2.75 (s, 3H), 3.21 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), d 3.78 (s, 3H), 4.11 (m, 2H), 4.64 (m, 2H), 6.05 (t, J
I.1144	$ \cdot 1144 = 4.5 \text{ Hz}, 1 \text{H} , 6.06 (t, J = 5.1 \text{ Hz}, 1 \text{H}), 6.84 (s, 1 \text{H}), 7.07 (d, J = 8.7 \text{ Hz}, 1 \text{H}), 7.35 (dd, J = 2.1, 8.7 \text{ Hz}, 1 \text{H}), 7.38 (d, J = 8.7 \text{ Hz}) 1.00 (d, J = 8.7 $
-	2H), 7.40 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H)
	IR (KBr) 1609, 1519, 1481, 1364, 1177, 1151, 1079, 969, 874, 797 cm ⁻¹
٠	m.p 203-205 ℃
	¹ H NMR (CDCl ₃) δ 2.83 (s, 3H), 3.22 (s, 3H), 3.25 (s, 3H), 3.55 (s, 3H), d 3.79 (s, 3H), 4.30 (t, J = 1.8 Hz, 2H), 4.88 (t, J =
I-1145	I-1145 1.8 Hz, 2H), 6.84 (s, 1H), 7.20 (d, J = 8.7 Hz, 1H), 7.37 (dd, J = 2.1, 8.7 Hz, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.42 (d. J = 2.1 Hz, 1Hz, 1Hz, 1Hz, 1Hz, 1Hz, 1Hz, 1Hz,
	1H), 7.67 (d, $J = 8.7$ Hz, 2H)
	IR (KBr) 3443, 1606, 1519, 1481, 1360, 1179, 1150, 1079, 877, 798 cm ⁻¹
	m.p 173-174 °C
I.1146	¹ H NMR (CD3OD) & 3.38 (s, 3H), 3.68 (s, 3H), 4.23 (t, J = 1.8 Hz, 2H), 4.83 (t, J = 1.8 Hz, 2H), 6.43 (s, 1H), 6.79 (dd. J =
	2.1, 8.1 Hz, 1H), 6.85 (d, J = 8.7 Hz, 2H), 6.86 (d, J = 2.1 Hz, 1H), 7.04 (d, J = 8.1 Hz, 1H), 7.45 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3399, 1612, 1586, 1523, 1487, 1401, 1217, 1114, 1067, 1013, 996, 828 cm ⁻¹

	foam
	¹ H NMR (CDCl ₃) δ 3.39 (s, 3H), 3.45 (s, 3H), 3.74 (s, 3H), 4.17 (t, $J = 1.8$ Hz, 2H), 4.83 (t. $J = 1.8$ Hz. 2H) 6.45 (s. 1H)
I.1147	1.1147 6.91 (d, J = 8.7 Hz, 2H), 6.97 (dd, J = 2.1, 8.1 Hz, 1H), 7.05 (d, J = 8.1 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.52 (d. J = 8.7 Hz.
	2H)
	IR (KBr) 3411, 1612, 1589, 1523, 1489, 1404, 1224, 1114, 1071, 1010, 939, 816 cm ⁻¹
	foam
	14 NMR (CDCl ₃) & 1.14 (t, J = 7.5 Hz, 3H), 2.23 (q, J = 7.5 Hz, 2H), 2.71 (s, 3H), 3.21 (s, 3H), 3.27 (s, 3H), 3.60 (s, 9H)
1.1148	1-1148 $ 3.78 (s, 3H), 4.80 (s, 2H), 6.84 (s, 1H), 7.20 (d, J = 9.0 Hz, 1H), 7.37 (dd, J = 2.1, 9.0 Hz, 1H), 7.38 (d, J = 8.7 Hz, 9H), 7.49 (d) 3.78 (s, 3H), 4.80 (s, 2H), 6.84 (s, 1H), 7.20 (d, J = 9.0 Hz, 1H), 7.37 (dd, J = 2.1, 9.0 Hz, 1H), 7.38 (d, J = 8.7 Hz, 9H), 7.49 (d) 3.78 (s, 3H), 4.80 (s, 2H), 6.84 (s, 1H), 7.20 (d, J = 9.0 Hz, 1H), 7.37 (dd, J = 2.1, 9.0 Hz, 1H), 7.38 (d, J = 8.7 Hz, 9H), 7.49 (d) 3.78 (s, 3H), 4.80 (s, 3H), 6.84 (s, 3H), 7.20 (d, J = 9.0 Hz, 1H), 7.37 (dd, J = 2.1, 9.0 Hz, 1H), 7.38 (d, J = 8.7 Hz, 9H), 7.49 (d) 3.78 (s, 3H), 4.80 (s, 3H), 6.84 (s, 3H), 7.20 (d, J = 9.0 Hz, 1H), 7.37 (dd, J = 2.1, 9.0 Hz, 1H), 7.38 (d, J = 8.7 Hz, 9H), 7.49 (d) 3.78 (s, 3H), 7.80 (s, 3H), 7.49 (s, 3H), 7.4$
	J = 2.1 Hz, 1H), 768 (d, J = 8.7 Hz, 2H)
	IR (KBr) 2232, 1609, 1519, 1481, 1365, 1177, 1151, 1079, 970, 876, 797 cm ⁻¹
	mp >280℃ (decomp.)
1,1140	¹ H NMR (DMSO-d ₆) δ 3.30 (s, 3H), 3.64 (s, 3H), 4.85 (s, 2H), 6.39 (s, 1H), 6.69 (dd, J = 8.4, 2.1 Hz, 1H), 6.79 (d, J = 2.1)
C#11-1	Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.94 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H), 8.54 (g, 1H)
	IR (Nujol) 3166, 1707, 1671, 1611, 1586, 1523, 1489, 1288, 1259, 1211, 1115, 1075, 1012, 814 cm. 1
	foam
1.1150	¹ H NMR (CDCl ₃) & 1.91 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.89 (s, 2H), 5.29 (brs, 1H), 5.36 (brs, 1H), 6.45 (s, 1H), 6.99 (d)
0011-1	J = 8.7 Hz, 2H), 6.97 (dd, $J = 8.4$, 2.1 Hz, 1H), 7.07 (d, $J = 8.4 Hz$, 1H), 7.08 (d, $J = 2.1 Hz$, 1H) 7.54 (d. $J = 8.7 Hz$, 9H)
	IR (KBr) 3432, 1612, 1588, 1523, 1489, 1288, 1224, 1192, 1113, 1070, 1010, 938, 825, 813, cm. 1
	foam
	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.98 (d, J = 1.8 Hz, 2H), 5.92 (dt, J = 7.5, 1.8 Hz, 1H) 6.45 (s, 1H) 6.46 (d, 1)
I-1151	= 7.5 Hz, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.98 (dd, J = 8.4, 2.1 Hz, 1H), 7.09 (d. J = 2.1 Hz, 1H), 7.11 (d. J = 8.4 Hz, 1H), 7.52
	IR (KBr) 3410, 1612, 1589, 1523, 1489, 1403, 1224, 1112, 1070, 1011, 938, 826 cm.1
	in one one of the contract of

	foam
	1H NMR (CDCl ₃) & 3.45 (s, 3H), 3.75 (s, 3H), 4.89 (d, J = 2.1 Hz. 2H) 5.97 (dt. J = 13.8.9.1 Hz. 1H) 6.45 (2.11)
1.1152	= 13.8 Hz, 1H), 6.92 (d, $J = 8.7$ Hz, $2H$), 6.97 (dd, $J = 8.4$, 2.1 Hz, $1H$), 7.04 (d. $J = 8.4$ Hz, IH), 7.04 (d. $J = 8.4$ Hz, $J =$
	(d, J = 8.7 Hz, 2H)
	IR (KBr) 3427, 1612, 1588, 1523, 1489, 1403, 1226, 1192, 1175, 1113, 1070, 1011, 628, 619, 692
1,1159	1H NMR (CDCl3) & 2.84 (s, 3H), 3.33 (s, 3H), 3.74 (s, 3H), 3.98 (s, 3H) & 18 (s, 3H) & 38 (s, 9H) 7.05 (s, 11), 2.25
0011-1	10H), 8.61 (d, J = 8.7 Hz, 1H), 8.82 (brs, 1H)
	IR(KBr) 3381, 2942, 1724, 1538, 1481, 1369, 1296, 1177, 1163, 1089, 963, 523, 523, 523, 523, 523, 523, 523, 52
	mp78-80 °C
1,1154	¹ H NMR (CDCl ₃) δ 2.17 (s, 3H), 2.67 (s, 3H), 3.13 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H) ξ 19 (ς, 9H), 6 92 (s, 11), 7.2.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7
F011-1	8.6 Hz, 1H), 7.31-7.45 (m, 7H), 7.62 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.6 Hz, 1H), 6.51 (m, 7H), 7.62 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.6 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.6 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.6 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.2 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.2 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.2 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.2 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.2 Hz, 1H), 6.51 (d, J = 8.2 Hz, 1H), 6.
	IR(KBr) 3398, 2939, 1739, 1529, 1477, 1368, 1287, 1240, 1177, 1110, 1078, 627, 617, 620, 678, 111)
	mp74-75 °C
[-1155	¹ H NMR (CDCl ₃) δ 1.68 (s, 3H), 1.76 (s, 6H), 1.81 (s, 3H), 2.69 (s, 3H), 3.24 (s, 3H), 3.69 (s, 3H), 3.60 (s, 3H), 2.69
	3.88-4.02 (m, 2H), 4.64 (d, J = 7.2 Hz, 2H), 5.25 (t, J = 7.8 Hz, 1H), 5.50 (t, J = 7.4 Hz, 1H), 6.89 (2, 1H), 7.05 (2, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2Hz, 2H
	IR(KBr) 3412, 2939, 1697, 1519, 1483, 1366, 1268, 1207, 1178, 1080, 964, 808, 523,
	mp72-74 °C
	1H NMR (CDCl3) & 1.95 (s, 3H), 1.99 (s, 3H), 2.87 (s, 3H), 3.42 (s, 3H), 3.74 (s, 3H), 3.97 (s, 3H), 4.16 (s, 3H), 4.60 (s, 3H)
I-1156	1.1156 $ 6.6 \text{ Hz}, 2H \rangle$, 5.68 (t, $J = 5.7 \text{ Hz}, 1H \rangle$, 7.04 (s, 1H), 7.27 (d. $J = 8.1 \text{ Hz}, 1H \rangle$) 7.39.7 56 (m. 4H) 8.60 (1, $J = 6.7 \text{ Hz}, 1H \rangle$) 7.04 (s, 1H) 7.27 (d. $J = 8.1 \text{ Hz}, 1H \rangle$) 7.39.7 56 (m. 4H) 8.60 (1, $J = 6.7 \text{ Hz}, 1H \rangle$) 7.01 (s, 1H) 7.27 (d. $J = 8.1 \text{ Hz}, 1H \rangle$) 7.39.7 56 (m. 4H) 8.60 (1, $J = 6.7 \text{ Hz}, 1H \rangle$) 7.10 (s, 1H) 7.27 (d. $J = 8.1 \text{ Hz}, 1H \rangle$) 7.30.7 56 (m. 4H) 8.60 (f. $J = 6.7 \text{ Hz}, 1H \rangle$) 7.104 (s, 1H) 7.27 (d. $J = 8.1 \text{ Hz}, 1H \rangle$) 7.30.7 56 (m. 4H) 8.60 (f. $J = 6.7 \text{ Hz}, 1H \rangle$
·	(brs, 1H)
	IR(KBr) 3407, 2940, 1731, 1601, 1538, 1481, 1366, 1294, 1178, 1165, 1079, 805, 562, 231.
	, may 200, 1013, 1

	ე 69-89ძա
	"H NMR (CDCI ₃)
1.1157	6.6 Hz, 2H), 5.27 (t, J = 7.5 Hz, 1H), 5.50 (t, J = 6.9 Hz, 1H), 6.86 (s. 1H), 7.10 (d. J = 8.4 Hz, 1H), 7.05 (z. J = 3.7)
	J = 8.1 Hz, 1H), 7.76 (s, 1H)
	IR(KBr) 3422, 2939, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522, 2039, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522, 2039, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522, 2039, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522, 2039, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522, 2039, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522, 2039, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522, 2039, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1078, 1701, 1
	mp64-66 C
I-1158	I-1158 H NMR (CDCl3) 8 3.47 (s, 3H), 3.74 (s, 3H), 5.19 (s. 2H) 5.86 (brs. 1H) 6.44 (s. 1H) 7.08 7.00 (c. 11)
	IR(KBr) 3399, 2938, 1726, 1624, 1604, 15263, 1487, 1403, 1909, 1909, 1159, 203, 203, 203, 1726, 1624, 1604, 15263, 1487, 1403, 1909, 1909, 1159, 203, 203, 203, 203, 203, 203, 203, 203
	mp68-70 °C
I-119	1H NMR (CDCl3) & 2.57 (s, 3H), 3.57 (s, 3H), 5.21 (s, 2H) 6.84 (s, 1H) 7.11 7.72 (m, 1111) 2.52
	IR(KBr) 3422, 2939, 1728, 1605, 1523, 1482, 1397, 1367, 1933, 1900, 1178, 1966, 266, 267, 267, 267, 267, 267, 267, 2
	mp72-73 °C
•	¹ H NMR (CDCl ₃) & 1.75 (s, 6H), 1.78 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 9.76 (4, 1 - 7.9 H, 9.11)
I-1160	I-1160 4.38 (brs, 1H), 4.61 (d, J = 6.9 Hz, 2H), 5.41 (t, J = 6.3 Hz, 1H), 5.53 (t. J = 6.9 Hz, 1H), 5.63 (c. J = 6.9 H
	3H), $6.69 (d, J = 8.4 \text{ Hz}, 1\text{H})$, $6.95 (s, 1\text{H})$, $7.06 (s, 1\text{H})$, $7.13.7.15 (m, 9\text{H})$, $7.96 (s, 1\text{H})$
·	IR(KBr) 3423, 2932, 1608, 1528, 1490, 1459, 1950, 1113, 1071, 605, 757
	mp68-69 °C
1.1161	1H NMR (CDCl3) & 1.76 (s, 3H), 1.81 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 3.91 (s, 3H), 4.61 (4, 1-7.9 H, 21.7)
	Hz, 1H), 5.91 (brs, 2H), 6.47 (s, 1H), 6.83 (d, $J = 8.1$ Hz. 2H), 6.95 (g, 1H), 7.06.7 00 (m, 9H), 7.10, 111, 2.10, 111, 2.10 (g, $J = 8.0$)
	IR(KBr) 3406, 2933, 1524, 1490, 1397, 1270, 1241, 1116, 1075, 1069, 811, 773,
	(, , , , , , , , , , , , , , , , , , ,

	mp81.83 ℃
1.1162	¹ H NMR (CDCl ₃) δ 1.76 (s, 6H), 1.79 (s, 3H), 1.81 (s, 3H), 3.50 (s, 3H), 3.75 (s, 3H), 3.80 (d, J = 6.6 Hz, 2H), 4.36 (brs, 1H), 4.61 (d, J = 6.9 Hz, 2H), 5.39 (t, J = 6.3 Hz, 1H), 5.53 (t, J = 6.6 Hz, 1H), 5.68 (brs, 1H), 5.90 (brs, 1H), 6.43 (s, 1H), 6.73 (d, J = 8.4 Hz, 1H), 6.95 (s, 1H), 7.05 (s, 1H), 7.26 (d, J = 0.9 Hz, 1H), 7.47 (dd, J = 2.1, 8.4 Hz, 1H), 7.59 (d, J = 2.1 Hz, 1H) -IR(KBr) 3484, 2931, 1607, 1525, 1488, 1310, 1943, 1114, 1020, 1002
1.1163	mp87-89 °C 1H NMR (CDCl ₃)
I-1164	amorphous 1. H NMR (CDCl ₃)
I-1165	foam 1H NMR (CDCl ₃) & 1.47 (s, 3H), 1.72 (s, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.51 (s, 3H), 3.80 (s, 3H), 4.37 (d, J = 7.8 Hz, 2H), 4.64 (d, J = 6.6 Hz, 2H), 5.29 (t, J = 7.8 Hz, 1H), 5.50 (t, J = 6.6 Hz, 1H), 6.88 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.27 (d, J = 8.7 Hz, 2H), 7.35 (dd, J = 8.4, 2.3 Hz, 1H), 7.39 (d, J = 2.3 Hz, 1H), 7.66 (d, J = 8.7 Hz, 2H) 1R(KBr) 1696, 1521, 1482, 1366, 1177, 1080, 972, 946, 814, 705, 7011
I-1166	mp 135-136 $\[\mathbb{C} \]$ ¹ H NMR (CDCl ₃) $\[\delta \]$ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.54 (s, 3H), 3.80 (s, 3H), 4.64 (d, J = 6.7 Hz, 2H), 5.50 (t, J = 6.7 Hz, 1H), 6.87 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.34 (d, J = 8.1 Hz, 2H), 7.35 (dd, J = 8.4, 2.2 Hz, 1H), 7.39 (d, J = 2.2 Hz, 1H), 7.69 (d, J = 8.1 Hz, 2H) ¹ J = 2.2 Hz, 1H), 7.69 (d, J = 8.1 Hz, 2H) ¹ IR (KBr) 1702, 1522, 1481, 1362, 1275, 1150, 1081, 1014, 978, 817, 793 cm ⁻¹

Table 231

	mp 169.171 C
	1H NMR (DMSO-d6) 8 1.71 (s, 3H), 1.72 (s, 6H), 1.76 (s, 3H), 3.31 (s, 3H) 3 63 (s, 3H) 3 64 (m, 9H) 4 64 (4, 1 - 5 9 H)
I.1167	2H), 5.29 (t, $J = 7.5$ Hz, 1H), 5.49 (t, $J = 6.8$ Hz, 1H), 5.75 (t, $J = 8.1$ Hz. 1H), 6.37 (s 1H), 6.63 (d $J = 8.4$ Hz, 9H), 5.49 (t, $J = 6.8$ Hz, 1H), 5.75 (t, $J = 8.1$ Hz. 1H), 6.37 (s 1H), 6.63 (d $J = 8.4$ Hz, 9H), 6.47 (s 1H)
	= 8.1, 2.0 Hz, 1H), 6.73 (d, $J = 2.0$ Hz, 1H), 6.88 (d, $J = 8.4$ Hz, 2H), 7.37 (d. $J = 8.4$ Hz, 2H), 8.41 (e. 1H), 8.70 (c. 1H)
	IR (KBr) 3473, 3276, 1608, 1523, 1491, 1310, 1259, 1190, 1119, 1079, 634, 694, 775, 775
	mp 159-160 °C
	1H NMR (DMSO-dg) 8 1.72 (s, 3H), 1.76 (s, 3H), 3.31 (s, 3H) 3.64 (s, 3H) 4.54 (4, 1-6.9 uz, 611) 5.62, 1.00, 1.00
I-1168	5.76 (br s, 1H), 6.37 (s, 1H), 6.61 (d, J = 8.4 Hz, 2H), 6.64 (dd, J = 8.1 2.0 Hz, 1H), 6.37 (s, 1H), 6.65 (dd, J = 8.4 Hz, 2H), 6.64 (dd, J = 8.1 2.0 Hz, 1H), 6.37 (s, 1
	Hz, 1H), 7.39 (d, J = 8.4 Hz, 2H), 7.37 (d, J = 8.4 Hz, 2H), 8.42 (br s. 1H) 8.70 (br s. 1H)
	IR (KBr) 3458, 3332, 1609, 1524, 1492, 1411, 1393, 1295, 1234, 1107, 1071, 1019, 604, 761
	mp 183-184 °C
	¹ H NMR (CDCl ₃) δ 1.76 (d, J = 0.6 Hz, 3H), 1.82 (s, 3H), 3.13 (s, 3H), 3.48 (s, 3H), 3.76 (s, 3H), 4.63 (d, 1 = 6.0 Hz, ott.)
I-1169	5.53 (m, 1H), 5.72 (s, 1H), 5.83 (s, 1H), 6.46 (s, 1H), 6.93 (dd. J = 1.8 8.4 Hz, 1H), 6.98 (d. 1 - 8.4 Hz, 1H), 6.98
	Hz, 1H), $7.82-7.89$ (m, 2H), $8.00-8.06$ (m, 2H)
	IR (KBr) 3445, 1593, 1499, 1482, 1461, 1387, 1311, 1278, 1245, 1189, 1146, 1111, 1086, 1008, 1016, 202, 202, 202
	mp 178-179 °C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.80 (s, 3H), 3.47 (s, 3H), 3.76 (s, 3H) 4 62 (d, $I = 7.9$ Hz, 9H) ϵ 5.9 (m, 11)
1.1170	5.72 (s, 1H), 5.86 (s, 1H), 6.47 (s, 1H), 6.94 (dd, J = 1.8, 8.1 Hz, 1H), 6.98 (d. 1 = 8.1 Hz, 1H), 7.05 (1, 1 = 1.9.1 H), 7.05 (1.1 H), 7.05 (1.1 H)
0111	7.77 (m, 2H), 7.79-7.85 (m, 2H)
	IR (KBr) 3420, 1587, 1527, 1482, 1449, 1430, 1416, 1390, 1357, 1290, 1240, 1214, 1198, 1135, 1115, 1073, 1019, 008, 077
	962, 937, 831 cm ⁻¹

	mp 136-139 С
1 1171	¹ H NMR (CDCl ₃) & 1.73 (s, 3H), 1.77 (s, 3H), 2.99 (s, 6H), 3.71 (d, J = 6.6 Hz, 9H), 3.76 (s, 9H), 9.79 (s, 9H)
1/11-1	1H), 6.36-6.46 (m, 2H), 6.79-6.84 (m, 2H), 6.89 (s, 1H), 6.95 (s, 1H), 7.18-7.24 (m, 1H), 7.47-7.52 (m, 2H)
	IR (KBr) 3600-2800(br), 1626, 1609, 1531, 1493, 1460, 1444, 1388, 1345, 1232, 1207, 1173, 1194, 1050, 1098, 2001
	mp 113-114 C
[.1179	1H NMR (CDC13) 5 3.00 (s, 6H), 3.77 (s, 3H), 3.78 (s, 3H), 6.78-6.84 (m. 2H) 6.88 (s, 1H) 6.98 (s, 1H) 7.91 (4.3, 1 - 9.1
7	8.4 Hz, 1H), 7.43-7.53 (m, 3H), 7.58 (dd, J = 1.8, 11.1 Hz, 1H)
	IR (KBr) 3600-2800(br), 1711, 1609, 1533, 1493, 1464, 1390, 1919, 1181, 1169, 1059, 1067
	mp 141-143 °C
1.1173	¹ H NMR (CDCl ₃) δ 1.75 (d, $J = 0.9$ Hz, 3H), 1.78 (d, $J = 0.9$ Hz, 3H) 2.99 (s, 6H) 3.50 (s, 3H) 3.74 (c, 2H) 3.74 (c, 2H) 3.74 (c, 2H)
01111	Hz, 2H), 3.93 (br, 1H), 5.35-5.40 (m, 1H), 5.86 (s, 1H), 6.44 (s, 1H) 6.74-6 86 (m, 3H) 7.30.7.38 (m, 4u)
	IR (KBr) 3600-2800(br), 1625, 1611, 1530, 1491, 1458, 1444, 1400, 1348, 1332, 1352,
	mp 226-228 °C
-	¹ H NMR (CDCl ₃) δ 3.93 (s, 3H), 4.95 (s, 1H), 5.21 (s, 2H), 6.90-6.94 (m. 2H), 6.96 (s. 1H), 6.97 (s. 1H), 7.03 (s. 1 = 0.03)
I-1174	1H), 7.30-7.49 (m, 1H)
	IR (KBr) 3600-2800(br), 1608, 1589, 1520, 1471, 1446, 1384, 1358, 1270, 1250, 1938, 1910, 1179, 1141, 1909, 1931, 252
	cm ⁻¹
	mp 143-145 °C
I-1175	I-1175 H NMR (CDCl ₃) & 3.21 (s, 3H), 3.93 (s, 3H), 5.22 (s, 2H), 6.97 (s, 2H), 7.03 (s, 1H), 7.30, 7.55 (m, 11H)
	IR (KBr) 3600-2800(br), 1602, 1517, 1468, 1348, 1948, 1910, 1176, 1171, 1962, 1960, 1111)

Table 233

	mp 98-100 °C
1.1176	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.21 (s, 3H), 3.91 (s, 3H), 4.65 (d, J = 6.9 Hz, 2H), 5.53-5.58 (m, 1H), 6.94. 7.03 (m, 3H), 7.23-7.41 (m, 2H), 7.45 (s, 1H), 7.49 (s, 1H), 7.51-7.56 (m, 1H)
·	IR (KBr) 3600-2800(br), 1604, 1583, 1519, 1470, 1449, 1365, 1950, 1177, 1151, 1967, 1973, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974, 1974,
	mp 118-120 °C
1.1177	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.91 (s, 3H), 4.64 (d, $J = 6.9$ Hz. 2H) 5.53.5 58 (m, 1H) 6.88 7.09 (m, 513)
	7.23-7.37 (m, 2H), 7.44 (s, 1H), 7.46 (s, 1H)
	IR (KBr) 3600-2800(br), 1626, 1609, 1526, 1490, 1429, 1253, 1187, cm. 1
•	mp 161-164 C
1,1178	1H NMR (CDC13) 8 3.00 (s, 3H), 3.79 (s, 3H), 3.80 (s, 3H), 6.78-6.83 (m. 2H), 6.90 (s. 1H), 6.07 (s. 11), 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.
0/11-1	7.71 (d, J = 1.8 Hz, 1H), 8.37 (d, J = 8.7 Hz, 1H), 8.46 (br s. 1H)
	1R (KBr) 3600-2800(br), 1716, 1613, 1532, 1505, 1487, 1463, 1384, 1357, 1380, 1102, 1102, 1103, 1104,
	mp 135-137 °C
1.1179	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.78 (s, 3H), 3.00 (s, 6H), 3.78 (s, 3H), 3.79 (s, 3H), 4.99 (d, 1 – 6.6 μ, 1μ), ε 25.5 (s, 24)
	1H), 6.71 (d, $J = 8.4 \text{ Hz}$, 1H), 6.80-6.83 (m, 2H), 6.90 (s, 1H), 6.94 (s, 1H), 7.38-7.42 (m, 1H), 7.48-7 56 (m, 2H)
	IR (KBr) 3600-2800(br), 1612, 1532, 1495, 1460, 1444, 1385, 1365, 1973, 1957, 1969, 1960, 1969,
I-1180	I-1180 \mid Hz, 1H), 7.12 (s, 1H), 7.15 (s, 1H), 7.23 (d.d, $J = 8.4 \& 2.1 \text{Hz}$, 1H), 7.30 - 7.51 (m, 10H)
	IR (KBr) 3557, 1605, 1486, 1370, 1235, 1177, 1149, 1078, 1017 cm ⁻¹
	¹ H NMR (CDCl ₃) & 1.66 (s, 6H), 2.27 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H), 4.22 (s, 1H), 5.22 (s, 9H), 7.06 (d, 1 - 8 d, 12 m)
I-1181	I.1181 $\left 7.12 \text{ (s, 1H), 7.14 (s, 1H), 7.23 (d.d, J = 8.4 & 2.1Hz, 1H), 7.30 - 7.51 (m, 10H)} \right $
	IR (KBr)3544,3441, 1604, 1512, 1485, 1367, 1222, 1173, 1149 cm. 1
	THE CITE (SEE)

	1H NMR (CDCl3) & 1.28 (t. J = 7.2Hz 3H) 2.96 (s. 3H) 9.98 (c. 3H) 9.70 (c. 1 = 7.9Hz ott) 9.60 (c. 1 = 7.9Hz ott)
1100	(3, 3H), 4.73 (8, 1H), 6.82 (9, 511), 2.10 (9, 5 = 1.2HZ, 2H), 3.20 (8, 3H), 4.73 (8, 1H), 6.82
1-1182	$1.1182 \mid (d, J = 8.4 \text{Hz}, 1\text{H}), 7.03 \cdot 7.11 \text{ (m, 2H)}, 7.14 \text{ (s, 1H)}, 7.15 \text{ (s, 1H)}, 7.29 \cdot 7.46 \text{ (m, 4H)}$
	IR (KBr) 3510, 1605, 1515, 1488, 1369, 1263, 1177, 1147, 1117 cm.1
	¹ H NMR (CDCl ₃) δ 1.29 (d, J = 6.9Hz, 6H), 2.27 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H), 3.27 (aintet J = 6.9Hz, 1H) 4.76 (s. 1H)
11183	6.81(d, J = 7.8Hz, 1H), 7.07(d.d, J = 7.8 & 2.1 Hz, 1H), 7.11(s, 1H), 7.15(s, 1H), 7.20(d.d, J = 9.1Hz, 1H), 7.34(d.d, J = 9.7Hz, 1H), 7.11(s, 1H), 7.15(s, 1H), 7.11(s, 1H)
1-1103	2H), 7.42 (d, J = 8.7Hz, 2H),
	IR (KBr) 3511, 1606, 1484, 1356, 1174, 1151 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.23 (t, J = 8.1Hz, 3H), 1.77 (s, 3H), 1.82 (s, 3H), 2.26 (s, 3H), 2.29 (s, 3H), 2.70 (a, J = 8.1Hz, 2H) 3.90
I-1184	(s, 3H), 4.58 (d, J = 6.6 Hz, 2H), 5.48 · 5.57 (m, 1H), 6.90 (d, J = 7.8 Hz, 1H), 7.08 · 7.13 (m, 2H), 7.16 (s, 2H), 7.23 · 7.47 (m
	(H)
	IR (KBr) 1605, 1485, 1369, 1352, 1236, 1201, 1174, 1150, 1133, 1008 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.23 (t, J = 7.5Hz, 3H), 1.76 (s, 3H), 1.81 (s, 3H), 2.27 (s, 3H), 2.29 (s. 3H), 2.70 (α. J = 7.5Hz, 9H)
I-1185	I-1185 4.57 (d, $J = 6.6$ Hz, 2H), 4.79 (brs, 1H), $5.49 - 5.58$ (m, 1H), $6.83 - 6.92$ (m, 3H). $7.08 - 7.19$ (m, 4H) 7.27 (d. $J = 8.4$ Hz, 2.1)
	IR (KBr) 3529, 1608, 1519, 1487, 1241, 1136, 1024 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.23 (d, J = 1.8Hz, 6H), 1.76 (s, 3H), 1.82 (s, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 3.20 (s, 3H)
I-1186	$I-1186 \mid J=1.8 \text{Hz}, 1 \text{H}$), 4.58 (d, $J=6.6 \text{ Hz}, 2 \text{H}$), 5.48 - 5.59 (m, 1 H), 6.90 (d, $J=7.8 \text{ Hz}, 1 \text{H}$) 7 10 - 7 44 (m, 8 H)
	IR (KBr)1602, 1468, 1369, 1232, 1174, 1151 cm ⁻¹
	¹ H NMR (CDCl ₃) & 1.24 (d, J = 6.9Hz, 6H), 1.76 (s, 3H), 1.81 (s, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 3.40 (quintet 1 = 6.9Hz, 1 = 6
1.1187	1H), 4.58 (d, J = 6.6 Hz, 2H), 4.79 (broad, s., 1H), 5.50 - 5.57 (m, 1H), 6.84 - 6.93 (m, 3H) 7.09 - 7.16 (m, 3H) 7.00 - 7.00
	(m, 3H)
	IR (KBr) 3265, 1607, 1519, 1486, 1448, 1383, 1232, 1170 cm ⁻¹

	¹ H NMR (CDCl ₃) & 1.31 (d, J = 6.9Hz, 6H), 1.44 (s, 3H), 1.67 (s, 3H), 2.97 (quintet, J = 6.9Hz, 1H) 3.78 (s, 3H) 3.80 (s
1.1188	3H), 3.92 (s, 3H), 4.20 · 4.30 (broad, 1H), 5.17 · 5.30 (m, 1H), 6.96 (s, 1H), 6.99 (s, 1H), 7.07 · 7.35 (m, 5H), 7.52 (d, J = 8.1
0011-1	Hz, 2H)
	IR (KBr) 3422, 1601, 1529, 1492, 1462, 1378, 1341, 1257, 1203, 1138, 1028 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 2.67 (s, 3H), 3.13 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.15 (d, J = 9.0 Hz. 1H).
I-1189	7.31 - 7.50 (m, 8H), 7.55 (d.d, J = 12.0 & 1.8 Hz, 1H), 8.34 - 8.41 (m, 1H)
	IR (KBr)3428, 1740, 1601, 1535, 1482, 1366, 1292, 1238, 1177, 1164, 1112, 1079, 1013cm
	¹ H NMR (CDCl ₃) δ 1.48 (s, 3H), 1.70 (s, 3H), 1.77 (s, 3H), J.81 (s, 3H), 2.70 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), 3.81 (s,
I-1190	I-1190 3H), 4.09 - 4.20 (m, 1H), 4.53 - 4.68 (m, 3H), 5.18 - 5.30 (m, 1H), 5.43 - 5.54 (m, 1H), 6.86 (s, 1H), 7.06 - 7.51 (m, 6H)
	IR (KBr) 1702, 1521, 1482, 1367, 1204, 1177, 1115, 1080 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 1.75 (s, 6H), 1.78 (s, 3H), 1.82 (s, 3H), 3.49 (s, 3H), 3.74 (s, 3H), 3.79 (d, J = 6.3Hz, 2H), 4.61 (d. J =
1,1191	6.6Hz, 2H), 5.32 - 5.43 (m, 1H), 5.49 - 5.57 (m, 1H), 5.68 (s, 1H), 5.90 (s, 1H), 6.44 (s, 1H), 6.74 - 6.85 (m. 1H), 6.95 (s, 2H)
1011-1	7.05 (s, 1H), 7.29 - 7.38 (m, 2H)
	IR (KBr) 3527, 1624, 1530, 1491, 1248, 1221, 1197, 1125, 1105, 1072 cm ⁻¹
	¹ H NMR (CDCl ₃) & 1.75 (s, 3H), 1.78 (s, 3H), 3.49 (s, 3H), 3.73 (s, 3H), 3.78 (d, J = 6.9 Hz, 2H), 5.32 - 5.43 (m. 1H).
I-1192	
	IR (KBr)3551,3437,3310, 1607, 1529, 1491, 1463, 1402, 1362, 1269, 1255, 1184, 1099,1070, 1013 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 2.28 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 5.16 (s, 2H), 5.69 (s, 1H), 6.80 (d, J = 8.7 Hz, 2H), 6.84 (d.d.
1.1193	J = 8.1 & 2.1 Hz, 1H), 6.98 (.d, J = 8.1Hz, 1H), 6.99 (d, J = 2.1 Hz, 1H), 7.12(8, 1H), 7.13 (8, 1H), 7.27 (dJ. = 8.7Hz, 2H)
	IR (KBr)1605, 1525, 1490, 1417, 1242, 1199, 1127, 1006 cm ⁻¹

Table 236

	mp 174-175 °C
1.1104	¹ H NMR (CDCl ₃)
1.011.1	18H), 7.86 (ABq, J = 8.4 Hz, 4H)
	IR (KBr) 3463, 3409, 1588, 1519, 1482, 15455, 1417, 1385, 1321, 1285, 1247, 1154, 1119, 1096, 1067, 1015, 2001
	mp 165-167 °C
11105	¹ H NMR (CDCl ₃) δ 2.68 (s, 3H), 3.14 (s, 3H), 3.56 (s, 3H), 3.81 (s, 3H), 4.40 (s, 4H), 5.20 (s, 2H), 6.86 (s, 1H), 7.09.7 50 (m)
6611-1	18H), 7.79 (ABq, J = 8.1 Hz, 4H)
	IR (KBr) 3434, 2938, 1606, 1596, 1518, 1478, 1455, 1368, 1335, 1293, 1268, 1239, 1174, 1157, 1118, 1079, 2011
	mp 176-178 °C
	1H NMR (CDCl ₃) & 1.58 (s, 3H), 1.66 (s, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), 3.64 (m, 9H)
I-1196	3.80 (s, 3H), 4.28 (t, J = 6.0 Hz, 1H), 4.64 (d, J = 6.9 Hz, 2H), 5.10 (m. 1H), 5.49 (m. 1H), 6.86 (s. 1H), 7.10 (d. 1 - 9.4 Hz, 2H),
	1H), 7.35 (dd, $J = 2.1$, 8.4 Hz, 1H), 7.39 (d, $J = 2.1$ Hz, 1H), 7.87 (ABq. $J = 8.7$ Hz, 4H)
	IR (KBr) 3434, 3321, 2939, 1517, 1477, 1366, 1325, 1292, 1269, 1240, 1176, 1156, 1190, 1077, 2000.
	mp 180-181 °C
1,1107	¹ H NMR (DMSO) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.87 (s, 3H), 3.36 (s, 3H), 3.51 (s. 3H), 3.79 (s. 3H), 4 68 (d. 1 = 6.6 Hz, 2H)
1011	5.48 (m, 1H), 7.10 (s, 1H), 7.28-7.30 (m, 3H), 7.45 (bs, 2H), 7.87 (ABq, J = 8.7 Hz, 4H)
	IR (KBr) 3340, 3238, 2939, 1598, 1518, 1481, 1362, 1333, 1291, 1270, 1239, 1179, 1161, 1190, 1076, 1067, 1111
	oil
1.1108	¹ H NMR (CDCl ₃) δ 1.45 (s, 3H), 1.66 (s, 3H), 1.87 (s, 3H), 2.24 (s, 3H), 2.27 (s, 3H), 2.30 (s, 3H), 3.84 (s, 3H), 3.92 (s, 2H)
	3.95-4.03 (m, 1H), 4.50-4.58 (m, 1H), 5.22-5.29 (m, 1H), 6.87-6.99 (m, 4H), 7.09-7 17 (m, 3H), 7.80 (s, 1H), 8.34 8.43 (m, 1H)
	IR (CHCl3) 3673, 3021, 1685, 1639, 1525, 1495, 1406, 1937, 1198, 1037, 2007, 2
	(100) 100), 100), 1100, 1101, 1100, 1001 CM.

Table 237

	mp 177-179 ℃
1,1100	¹ H NMR (CDCl ₃) δ 1.45 (s, 6H), 1.66 (s, 6H), 1.87 (s, 6H), 2.29 (s, 6H), 3.85 (s, 6H), 3.95-4.04 (m, 2H), 4.50-4.59 (m. 2H).
6611-1	5.23-5.29 (m, 2H), 6.90-6.95 (m, 4H), 7.10-7.15 (m, 2H), 7.19 (s, 2H)
	IR (KBr) 2929, 1661, 1492, 1405, 1288, 1214, 1030, 869, 829 cm ⁻¹
	mp 224-226 ℃
1 1900	¹ H NMR (CDCl ₃) δ 2.88 (s, 3H), 3.22 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 6.43 (s, 1H), 6.85 (s, 1H), 7.01 (d, 3 = 8.4 Hz, 1H)
0071-1	7.20 (dd, J = 2.1, 8.4 Hz, 1H), 7.35-7.42 (m, 2H), 7.65-7.72 (m, 2H), 7.96 (d, J = 2.1 Hz, 1H), 8.96 (s, 1H)
	IR (KBr) 3441, 3370, 3024, 2938, 1729, 1508, 1481, 1365, 1177, 1148, 1085, 884, 798, 524 cm.
	powder
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.80 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.79 (s, 3H), 4.67 (d, J = 6.6 Hz, 2H)
I-1201	5.46-5.51 (m, 1H), 6.84 (s, 1H), 7.05 (d, J = 8.1 Hz, 1H), 7.22-7.26 (m, 1H), 7.36-7.41 (m, 2H), 7.67-7.71 (m, 2H), 8.35 (d. 1 =
	1.8 Hz, 1H), 9.24 (s, 1H)
	IR (KBr) 3385, 2937, 1718, 1532, 1479, 1362, 1175, 1152, 1078, 973, 876, 797, 526 cm ⁻¹
	mp 260-262 °C
1.1909	¹ H NMR (DMSO) & 2.27 (s, 6H), 3.87 (s, 6H), 7.00 (dd, J = 1.8, 8.1 Hz, 2H), 7.10 (d, J = 1.8 Hz, 2H), 7.21 (s, 2H), 7.48 (d, 1)
7071-1	$= 8.1 \mathrm{Hz}, 2\mathrm{H}$), $10.73 (\mathrm{s}, 2\mathrm{H})$
	IR (KBr) 3392, 3008, 1719, 1600, 1542, 1413, 1297, 1158, 1032, 905, 627 cm ⁻¹
	mp 143-144 C
1.1903	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.61 (s, 3H), 3.67 (s, 3H), 3.73 (s, 3H), 3.87 (s, 3H), 4.62 (d. J = 6.9 Hz, 2H)
	5.50-5.58 (m, 1H), 5.66 (s, 1H), 6.86-7.02 (m, 5H), 7.54 (d, J = 9 Hz, 2H)
	IR (KBr) 3494, 2935, 1673, 1609, 1584, 1519, 1479, 1456, 1389, 1284, 1249, 1178, 1109, 1016, 820, 798, 2011
	, 100, 100, 100, 100, 100, 100, 100, 10

	mp 90.91 °C
1 194	¹ H NMR (CDCl ₃) δ 1.72 (s, 3H), 1.79 (s, 3H), 2.26 (s, 6H), 4.69 (d, $J = 7.2$ Hz, 2H), 4.9-5.0 (brs. 1H), 5.57 (t. $J = 7.2$ Hz
1.124	1H), 6.85-7.0 (m, 4H), 7.10 (d, J = 8.7 Hz, 2H), 7.23 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3253, 3013, 2979, 2928, 1676, 1584, 1521, 1492, 1232, 1034, 950, 848, 825, cm. 1
	mp 131-132 °C
1.1908	¹ H NMR (CDCl ₃) δ 1.73 (s, 3H), 1.79 (s, 3H), 3.43 (s, 3H), 3.76 (s, 3H), 4.68 (d, $J = 6.9$ Hz, 2H), 4.9-5.1 (brs. 1H) 5.58 (t1
0071-1	= 7.2 Hz, 1H), 6.09 (brs, 1H), 6.44 (s, 1H), 6.92 (d, J = 8.4 Hz, 2H), 7.0-7.1 (m, 2H), 7.52 (d, J = 8.4 Hz, 2H)
	IR (KBr) 3428, 2951, 2932, 1671, 1611, 1523, 1491, 1402, 1233, 1111, 1077, 1027, 969, 833 cm. 1
	mp 191-192 °C
1.1906	¹ H NMR (CDCl ₃) δ 2.15 (s, 6H), 3.22 (s, 3H), 3.87 (s, 3H), 5.18 (AB q, J = 12.0 Hz, 2H), 6.74 (dd. J = 2.1. 8.1 Hz. 1H), 6.78
0071.1	(d, J = 2.1 Hz, 1H), 6.93 (d, J = 8.1 Hz, 1H), 7.24 (s, 1H), 7.30-7.50 (m, 9H)
	IR (KBr) 1528, 1479, 1453, 1364, 1326, 1262, 1243, 1223, 1209, 1200, 1176, 1152, 1137, 963, 870, 846, 754, cm. 1
	mp 108-109 °C
1 1907	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (d, J = 0.6 Hz, 3H), 2.27 (s, 3H), 2.28 (s. 3H), 4.56 (d. J = 6.6 Hz, 2H), 4.89 (s. 1H)
1071-1	5.54 (m, 1H), 6.86-6.92 (m, 2H), 6.94-7.00 (m, 2H), 7.12 (s, 1H), 7.13 (s. 1H), 7.22-7.27 (m, 2H), 7.27-7.731 (m, 9H)
·	IR (KBr) 3349, 1608, 1520, 1488, 1439, 1383, 1287, 1263, 1235, 1175, 999, 979, 571.
	mp 194-195 °C
	¹ H NMR (CDCl ₃) § 2.14 (s, 3H), 2.16 (s, 3H), 3.87 (s, 3H), 4.97 (s, 1H), 5.17 (AB a, J = 12.6 Hz, 2H), 6.74 (dd, J = 2.1, 8.1)
I-1208	Hz, 1H), 6.79 (d, $J = 2.1$ Hz, 1H), 6.88-6.93 (m, 2H), 6.93 (d, $J = 8.1$ Hz, 1H) $7.17.7.22$ (m, 2H) 7.24 (s, 1H) $7.99.7.49$ (m,
	5H)
	IR (KBr) 3408, 1611, 1526, 1479, 1463, 1455, 1382, 1263, 1242, 1225, 1219, 1143, 997, 751, 231, 1
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

· .	
	mp 183-184 °C.
1.1900	¹ H NMR (CDCl ₃) δ 2.03 (s, 3H), 2.07 (s, 3H), 3.19 (s, 3H), 3.80 (br s, 2H), 3.89 (s, 3H) 5.21 (s, 9H) 6.63 (s, 1H) 6.77 (3.3.1)
071-1	= 2.1, 8.1 Hz, 1H), $6.83 (d, J = 2.1 Hz, 1H)$, $7.02 (d, J = 8.1 Hz, 1H)$, $7.29.7.52 (m, 9H)$
	IR (KBr) 3481, 3391, 1610, 1511, 1482, 1370, 1240, 1219, 1197, 1153, 1153, 1007, 1007, 200
<u> </u>	1
1910	¹ H NMR (CDCl ₃) & 1.75 (s, 3H), 1.80 (s, 3H), 2.16 (s, 3H), 2.17 (s, 3H), 3.22 (s, 3H), 3.85 (s, 3H), 4.61 (d, 1 = 6.0 Hz, 6Hz)
0 77	5.55 (m, 1H), 6.74-6.79 (m, 2H), 6.92 (d, J = 8.7 Hz, 1H), 7.24 (s, 1H), 7.39 (s, 4H)
	IR (KBr) 1529, 1516, 1478, 1371, 1353, 1328, 1263, 1242, 1201, 1176, 1150, 975, 866, 946, 797
-	
	¹ H NMR (DMSO-d ₆) & 1.91 (s, 3H), 1.96 (s, 3H), 3.77 (s, 3H), 4.05 (br.s. 2H), 5.12 (s. 9H), 6.40 (s. 1H), 6.71 (s. 1 = 1.9.9.1)
I-1211	I-1211 Hz, 1H), 6.77-6.84 (m, 3H), 7.06-7.12 (m, 2H), 7.16 (d, J = 8.1 Hz, 1H), 7.32-7.52 (m, 5H), 9.38 (2, 1H)
	IR (KBr) 3378, 3289, 1609, 1586, 1518, 1483, 1454, 1402, 1267, 1236, 1207, 1171, 1136, 1094, 852, 925, 916, 752, 752, 757
	cm.1
	mp 195-196 °C
1.1919	¹ H NMR (CDCl ₃) & 1.75 (s, 3H), 1.79 (s, 3H), 2.15 (s, 3H), 2.16 (s, 3H), 3.85 (s, 3H), 4.61 (d, 1 = 6.0 Hz, 211), 4.62 (s, 3H)
7171-1	5.55 (m, 1H), 6.76-6.79 (m, 2H), 6.89-6.94 (m, 3H), 7.18-7.23 (m, 2H), 7.24 (g, 1H)
	IR (KBr) 3462, 1611, 1519, 1479, 1459, 1431, 1379, 1271, 1240, 1998, 1911, 1137, 083, 625,
I-1213	
I-124	¹ H NMR (CDCl ₃) δ 2.24 (s, 3H), 3.79 (s, 3H), 4.72 (br, 1H), 5.20 (s. 2H), 6.72-7 18 (m. 8H), 7.96.7 50 (m. 2H)
	IR (CHCl ₃) 3596, 1610, 1523, 1493, 1465, 1455, 1388, 1318, 1908, 1969, 1966, 1967, 1967, 1967, 1968,
	, 100, 100, 100, 100, 100, 100, 120, 11/3, 11/3, 11/3, 834 cm ⁻¹

Table 240

	mp 108-110 °C
[.1215	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.25 (s, 3H), 3.79 (s, 3H), 4.63-4.65 (d, J = 7.2 Hz, 2H), 5.56 (s, 2H), 6.81 (s.
	1H), 6.87-7.18 (m, 6H), 7.44-7.47 (m, 2H)
	IR (CHCl ₃) 3596, 2937, 1610, 1523, 1493, 1465, 1446, 1387, 1297, 1261, 1173, 1125, 1038, 993, 834 cm. 1
	mp 121.122 C
1.1916	¹ H NMR (CDCl ₃) δ 2.24 (s, 3H), 3.79 (s, 3H), 4.78-4.80 (d, $J = 6.9$ Hz, 2H), 6.24 (t. $J = 6.9$ Hz, 1H) 6.80 (s. 1H) 6.87.7 19
0171.1	(m, 6H), 7.43-7.48 (m, 2H)
	IR (CHCl ₃) 3596, 1612, 1523, 1493, 1464, 1389, 1300, 1259, 1173, 1127, 1038, 886, 834 cm ⁻¹
	mp 163-165 ℃
1.1917	¹ H NMR (CDCl ₃) δ 2.26 (s, 3H), 2.28 (s, 3H), 4.78 (br s, 1H), 4.78 (d, J =6.5 Hz, 2H), 5.60 (s. 1H) 6.23 (t. J =6.5 Hz, 1H)
1171-1	6.83-6.92 (m, 4H), 6.99 (d, J = 2.1 Hz, 1H), 7.10 (s, 1H), 7.11 (s, 1H), 7.22-7.27 (m, 2H)
	IR (CHCl ₃) 3597, 3548, 3027, 3010, 1613, 1588, 1522, 1490, 1218, 1208, 1171, cm. ¹
-	1
	¹ H NMR (CDCl ₃) δ 2.37 (s, 3H), 3.39 (s, 3H), 3.73 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.92 (s. 1H), 6.46 (s. 1H), 6.71 (dd. $l = 0$
1.1918	3.7, 0.7 Hz, 1H), 6.96 (dd, J = 8.4, 2.1 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.09 (d. J = 2.1 Hz, 1H), 7.26 (dd. J = 8.6, 0.7 Hz, 1H)
0111	2H), 7.37-7.45 (m, 5H), 7.60 (dd, J = 8.7, 1.5 Hz, 1H), 7.61 (d, J = 3.7 Hz, 1H), 7.78 (d. J = 1.5 Hz, 1H), 7.89 (d. J = 1.5 Hz, 1H)
•	1H), $8.05 (d, J = 8.7 \text{ Hz}, 1\text{H})$
	IR (KBr) 3476, 1457, 1371, 1254, 1107, 1131, 1107, 1011, 814, 685, 581 cm ⁻¹
	mp 217-219 °C
	¹ H NMR (CDCl ₃) δ 2.37 (s, 3H), 2.69 (s, 3H), 3.12 (s, 3H), 3.47 (s, 3H), 3.76 (s, 3H), 5.18 (s. 2H) 6.71 (d. $I = 3.8.$ Hz, 1H)
I-1219	6.86 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.26 (d, J = 8.7 Hz, 2H), 7.32-7.48 (m, 7H), 7.56 (dd. J = 8.7 1 8 Hz, 1H), 7.61 (d. J = 1.8 Hz, 1H), 7.61 (
	3.8 Hz, 1H), 7.78 (d, J = 1.8 Hz, 1H), 7.82 (d, J = 8.7 Hz, 1H), 8.05 (d, J = 8.7 Hz, 1H)
	IR (KBr) 1366, 1174, 1079, 963, 814, 685, 586 cm ⁻¹
•	

Table 241

	mp 208-210 ℃
	¹ H NMR (CDCl ₃) δ 2.37 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.47 (s, 3H), 3.76 (s, 3H), 4.63 (d, $J = 6.6$ Hz, 2H), 5.49 (t, $J = 6.6$
1,1990	Hz, 1H), 6.71 (d, J = 3.8 Hz, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.26 (d, J = 8.3 Hz, 2H), 7.35 (dd, J = 8.4, 2.1 Hz, 1H),
0771.1	7.40 (d, J = 2.1 Hz, 1H), 7.56 (dd, J = 8.4, 1.7 Hz, 1H), 7.61 (d, J = 3.8 Hz, 1H), 7.78 (d, J = 1.7 Hz, 1H), 7.82 (d, J = 8.3 Hz,
	2H), 8.05 (d, J = 8.7 Hz, 1H)
	IR(KBr) 1466, 1445, 1365, 1174, 1116, 1079, 964, 812, 686, 584 cm ⁻¹
	mp 203·205 ℃
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.39 (s, 3H), 2.69 (s, 3H), 2.97 (t, J = 8.6 Hz, 2H), 3.23 (s, 3H), 3.50 (s, 3H),
1.1991	3.77 (s, 3H), 3.98 (t, $J = 8.6$ Hz, 2H), 4.63 (d, $J = 6.6$ Hz, 2H), 5.49 (t, $J = 6.6$ Hz, 1H), 6.80 (s, 1H), 7.08 (d, $J = 8.5$ Hz, 1H),
1771.1	7.24-7.28 (m, 2H), 7.33 (dd, J = 8.5, 2.0 Hz, 1H), 7.37-7.39 (m, 2H), 7.41-7.45 (m, 1H), 7.71 (d, J = 8.4 Hz, 1H), 7.73 (d, J =
	8.1 Hz, 2H)
	IR (KBr) 1474, 1362, 1241, 1166, 1079, 975, 808 cm ⁻¹
	amorphous
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.39 (s, 3H), 2.98 (t, J = 8.4 Hz, 2H), 3.43 (s, 3H), 3.73 (s, 3H), 3.98 (t, J = 8.4
I-1222	Hz, 2H), 4.61 (d, J = 6.6 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 5.68 (s, 1H), 5.86 (s, 1H), 6.40 (s, 1H), 6.93-6.95 (m, 2H), 7.03-7.05
	(m, 1H), $7.23 \cdot 7.27$ (m, 2H), $7.35 \cdot 7.37$ (m, 1H), $7.45 \cdot 7.50$ (m, 1H), 7.71 (d, $J = 8.4$ Hz, 1H), 7.74 (d, $J = 8.4$ Hz, 2H)
	IR (KBr) 3457, 1480, 1354, 1244, 1164, 1099, 978, 817 cm ⁻¹
	mp 199-201 °C
	¹ H NMR (CDCl ₃) δ 3.19 (s, 3H), 3.72 (s, 3H), 3.90 (s, 3H), 4.20-4.27 (m, 4H), 5.20 (s, 2H), 6.53 (s, 1H), 6.90-6.99 (m, 3H),
I-1223	I-1223 7.25-7.65 (m, 9H)
	IR (KBr) 3434, 2938, 1604, 1586, 1522, 1484, 1465, 1432, 1368, 1339, 1326, 1249, 1226, 1203, 1174, 1146, 1136, 1106, 1027
	cm. ₁

Table 242

	mp 127-129 °C
	¹ H NMR (CDCl ₃) δ 1.57 (s, 3H), 1.65 (s, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.64 (m, 2H), 3.76 (s, 3H), 4.30 (t, J =
1997	5.7 Hz, 1H), 4.62 (d, J = 6.9 Hz, 2H), 5.10 (m, 1H), 5.53 (m, 1H), 5.72 (s, 1H), 5.85 (s, 1H), 6.47 (s, 1H), 6.93 (dd, J = 1.8, 8.4
1-1224	Hz, 1H), 6.98 (d, J = 8.4 Hz, 1H), 7.05 (d, J = 1.8 Hz, 1H), 7.88 (ABq, J = 8.7 Hz, 4H)
	IR (KBr) 3478, 3314, 2937, 1585, 1556, 1518, 1501, 1484, 1460, 1417, 1387, 1363, 1328, 1279, 1243, 1228, 1191, 1155,
	1129, 1113, 1090, 1068, 1013 cm ⁻¹
	mp 162-164 C
1.1225	I-1225 1H NMR (CDCl ₃) 6 3.19 (s, 3H), 3.72 (s, 3H), 4.19-4.23 (m, 4H), 5.18 (s, 2H), 6.52 (s, 1H), 7.03-7.64 (m, 12H)
	IR (KBr) 3433, 2933, 1523, 1483, 1463, 1435, 1377, 1360, 1269, 1227, 1172, 1149, 1126, 1096 cm ⁻¹
	mp 188-190 °C
	¹ H NMR (DMSO) δ 1.72 (s, 3H), 1.75 (s, 3H), 3.33 (s, 3H), 3.67 (s, 3H), 4.55 (d, J = 6.9 Hz, 2H), 5.49 (m, 1H), 6.50 (s, 1H),
1 1006	6.66 (dd, J = 2.1, 8.1 Hz, 1H), 6.74 (d, J = 2.1 Hz, 1H), 6.91 (d, J = 8.1 Hz, 1H), 7.42 (bs, 2H), 7.85 (ABq, J = 8.4 Hz, 4H), 8.75
1-1220	(bs, 2H)
	IR (KBr) 3465, 2937, 1588, 1517, 1500, 1483, 1470, 1446, 1415, 1385, 1340, 1308, 1283, 1246, 1224, 1201, 1186, 1168,
	1130, 1116, 1091, 1067, 1011 cm ⁻¹
	mp 172-174 °C
1 1007	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.78 (s, 3H), 3.19 (s, 3H), 3.72 (s, 3H), 3.87 (s, 3H), 4.20-4.27 (m, 4H), 4.62 (d, J = 6.9 Hz,
1-1661	2H), 5.57 (m, 1H), 6.54 (s, 1H), 6.96 (s, 3H), 7.49 (ABq, J = 8.7 Hz, 4H)
	IR (KBr) 3433, 2937, 1604, 1582, 1522, 1483, 1465, 1432, 1368, 1340, 1326, 1242, 1226, 1218, 1204, 1174, 1138, 1107 cm ⁻¹

Table 243

	mp 169.175 ℃
	¹ H NMR (CDCl ₃) δ -0.07-0.02 (m, 2H), 0.34-0.42 (m, 2H), 0.98 (m, 1H), 2.44 (s, 3H), 3.20 (s, 3H), 3.47 (d, J = 7.2 Hz, 2H),
1.1228	3.78 (s, 3H), 3.91 (s, 3H), 5.22
	Hz, 1H), 7.26-7.73 (m, 9H)
	IR (KBr) 3447, 2934, 1604, 1518, 1480, 1390, 1362, 1240, 1227, 1175, 1140, 1081 cm. ¹
	mp 172-174 C
1 1990	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.78 (s, 3H), 3.71 (s, 3H), 3.87 (s, 3H), 4.20.4.25 (m, 4H), 4.62 (d, J = 6.3 Hz, 2H), 4.94 (bs.
6771.1	1H), 5.57 (m, 1H), 6.55 (s, 1H), 6.89-7.50 (m, 7H)
	IR (KBr) 3410, 2933, 1611, 1522, 1484, 1462, 1422, 1371, 1264, 1238, 1224, 1173, 1134, 1103 cm.
	mp 149.151 °C
	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.81 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 3.87 (s, 3H), 4.61 (d, J = 6.6 Hz, 2H), 5.54-5.58 (m,
I-1230	$1.1230 \mid 1H$), 5.69 (s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.93-7.06 (m, 5H), 7.58 (d, $J = 8.7 \text{ Hz}$, 2H)
	IR (KBr) 3501, 2939, 1680, 1609, 1582, 1520, 1487, 1458, 1397, 1284, 1246, 1191, 1179, 1115, 1067, 1015, 940, 822, 794
	cm.1
	mp 151.152 C
···	¹ H NMR (CDCl ₃) δ 1.77 (d, J = 0.6 Hz, 3H), 1.81 (d, J = 0.6 Hz, 3H), 2.04 (s, 3H), 2.08 (s, 3H), 3.20 (s, 3H), 3.77 (br s, 2H)
I.1231	3.86 (s, 3H), 4.65 (d, J = 6.6 Hz, 2H), 5.58 (m, 1H), 6.04 (s, 1H), 6.81 (dd, J = 2.1, 8.7 Hz, 1H), 6.81 (d. J = 2.1 Hz, 1H), 7.01
	(d, J = 8.7 Hz, 1H), 7.30-7.36 (m, 2H), 7.38-7.43 (m, 2H)
	IR (KBr) 3484, 3393, 2934, 1608, 1511, 1482, 1371, 1239, 1213, 1197, 1173, 1153, 1138, 989, 973, 871, 844, 791, 5m.1
	, 100, 1100, 303, 310, 011, 044, (31 CM)

Table 244

	mp 198-199 ℃
	¹ H NMR (DMSO-d ₆) δ 1.72 (s, 3H), 1.77 (s, 3H), 1.91 (s, 3H), 1.95 (s, 3H), 3.75 (s, 3H), 4.04 (s, 2H), 4.55 (d, J = 6.9 Hz,
1 1999	2H), 5.48 (m, 1H), 6.40 (s, 1H), 6.69 (dd, J = 1.8, 8.1 Hz, 1H), 6.75 (d, J = 1.8 Hz, 1H), 6.77-6.83 (m, 2H), 7.05-7.11 (m, 3H),
1.1232	9.39 (s, 1H)
	IR (KBr) 3375, 3287, 2913, 1609, 1587, 1578, 1518, 1484, 1434, 1403, 1270, 1235, 1207, 1171, 1136, 1032, 1009, 863, 853,
	816, 749 cm ⁻¹
	mp 198-199 °C
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.80 (s, 3H), 1.91 (s, 3H), 2.11 (s, 3H), 2.13 (s, 3H), 3.20 (s, 3H), 3.84 (s, 3H), 4.64 (d, J =
I.1233	1.1233 6.6 Hz, 2H), 5.58 (m, 1H), 6.46 (s, 1H), 6.69-6.74 (m, 2H), 6.96 (d, J = 8.4 Hz, 1H), 7.11 (s, 1H), 7.32-7.38 (m, 2H), 7.40-7.46
	(m, 2H)
	IR (KBr) 1651, 1513, 1470, 1448, 1414, 1368, 1330, 1267, 1241, 1214, 1199, 1175, 970, 869 cm ⁻¹
	mp 193·194 °C
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.80 (d, J = 0.6 Hz, 3H), 1.94 (s, 3H), 2.11 (s, 3H), 2.13 (s, 3H), 3.84 (s, 3H), 4.64 (d, J = 6.6
I-1232	I-1232 \mid Hz, 2H), 5.58 (m, 1H), 6.58 (s, 1H), 6.70-6.75 (m, 2H), 6.85-6.93 (m, 2H), 6.96 (d, J = 8.4 Hz, 1H), 7.13 (s, 1H), 7.19-7.24 (m, \mid
	2H)
·	IR (KBr) 3271, 1654, 1611, 1517, 1467, 1448, 1370, 1289, 1262, 1240, 1213, 1177, 1136, 836 cm ⁻¹
	mp 114-115 °C
1.193K	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.27 (s, 6H), 3.91 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.56 (m, 1H), 5.61 (s, 1H),
0071-1	6.86 (dd, J = 2.1, 8.4 Hz, 1H), 6.86 (d, J = 2.1 Hz, 1H), 6.97 (d, J = 8.4 Hz, 1H), 7.02-7.14 (m, 5H)
	IR (KBr) 3410, 1597, 1521, 1470, 1449, 1415, 1382, 1297, 1276, 1261, 1220, 1122, 1052, 983, 862 cm ⁻¹

Table 245

		powder H NMR (CDCI.) & 399 (5 9H) 398 (5 9H) 946 (5 9H) 908 (5 9H) 508 (5 9H) 508 (5 9H) 508 (7 9H) 508 (7 9H)
IR (KBr) 3448, 2935, 1516, 14 mp 169-172 °C 'H NMR (CDCl ₃)	I-1236	7.51 (m, 9H)
mp 169-172 °C 1H NMR (CDCl ₃) 6 2.49 (s, 7.49 (m, 9H) IR (KBr) 3009, 2932, 1518, 14 mp 182-184 °C 1H NMR (CDCl ₃) 6 2.67 (s, 7.51 (m, 4H) IR (KBr) 3548, 3502, 2938, 16 mp 132-135 °C 1H NMR (CDCl ₃) 6 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H) IR (KBr) 2936, 1518, 1464, 15 mp 169-172 °C 1H NMR (CDCl ₃) 6 1.76 (s, 6.54-5.61 (m, 1H), 5.83 (s, 1H) IR (KBr) 3458, 2935, 1611, 18	-	
1H NMR (CDCl ₃) δ 2.49 (s, 7.49 (m, 9H) IR (KBr) 3009, 2932, 1518, 14 mp 182-184 ℃ 1H NMR (CDCl ₃) δ 2.67 (s, 7.51 (m, 4H) IR (KBr) 3548, 3502, 2938, 16 mp 132-135 ℃ 1H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H) IR (KBr) 2936, 1518, 1464, 13 mp 169-172 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, 6.4 1.5		
7.49 (m, 9H) IR (KBr) 3009, 2932, 1518, 14 mp 182-184 °C ¹ H NMR (CDCl ₃) δ 2.67 (s, 7.51 (m, 4H) IR (KBr) 3548, 3502, 2938, 16 mp 132-135 °C ¹ H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H) IR (KBr) 2936, 1518, 1464, 13 mp 169-172 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H) IR (KBr) 3458, 2935, 1611, 18	1 1937	¹ H NMR (CDCl ₃) δ 2.49 (s, 3H), 3.21 (s, 3H), 3.47 (s, 3H), 3.50 (s, 3H), 3.92 (s, 3H), 5.23 (s, 2H), 6.95-7.04 (m, 3H), 7.31-
IR (KBr) 3009, 2932, 1518, 14 mp 182-184 °C 1H NMR (CDCl ₃) δ 2.67 (s, 7.51 (m, 4H) IR (KBr) 3548, 3502, 2938, 16 mp 132-135 °C 1H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H) IR (KBr) 2936, 1518, 1464, 13 mp 169-172 °C 1H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H) IR (KBr) 3458, 2935, 1611, 18	1.1201	
mp 182-184 °C 1H NMR (CDCl ₃) δ 2.67 (s, 7.51 (m, 4H) 1R (KBr) 3548, 3502, 2938, 16 mp 132-135 °C 1H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H) IR (KBr) 2936, 1518, 1464, 15 mp 169-172 °C 1H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H) IR (KBr) 3458, 2935, 1611, 18		IR (KBr) 3009, 2932, 1518, 1459, 1370, 1362, 1250, 1176, 1151, 872, 809, 542, 527 cm ⁻¹
1H NMR (CDCl ₃) δ 2.67 (s, 7.51 (m, 4H) IR (KBr) 3548, 3502, 2938, 16 mp 132-135 ℃ 1H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H) IR (KBr) 2936, 1518, 1464, 13 mp 169-172 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, 1H) NMR (CDCl ₃) δ 1.76 (s, 5.4-5.61 (m, 1H), 5.83 (s, 1H) IR (KBr) 3458, 2935, 1611, 18		
7.51 (m, 4H) IR (KBr) 3548, 3502, 2938, 16 mp 132-135 °C 'H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H IR (KBr) 2936, 1518, 1464, 13 mp 169-172 °C 'H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H IR (KBr) 3458, 2935, 1611, 18	1.1938	¹ H NMR (CDCl ₃) δ 2.67 (s, 3H), 3.21 (s, 3H), 3.48 (s, 3H), 3.50 (s, 3H), 3.93 (s, 3H), 5.77 (s, 1H), 6.98-7.06 (m, 3H), 7.38-
IR (KBr) 3548, 3502, 2938, 16 mp 132-135 C 1H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H IR (KBr) 2936, 1518, 1464, 13 mp 169-172 C 1H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H IR (KBr) 3458, 2935, 1611, 18	1.1700	
mp 132-135 °C ¹ H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H ¹ IR (KBr) 2936, 1518, 1464, 15 ¹ mp 169-172 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H ¹ IR (KBr) 3458, 2935, 1611, 15		IR (KBr) 3548, 3502, 2938, 1602, 1519, 1389, 1364, 1176, 1159, 1012, 963, 875, 521 cm ⁻¹
1H NMR (CDCl ₃) δ 1.77 (s, 6.6 Hz, 2H), 5.51-5.58 (m, 1H IR (KBr) 2936, 1518, 1464, 13 mp 169-172 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H IR (KBr) 3458, 2935, 1611, 15		mp 132-135 °C
6.6 Hz, 2H), 5.51-5.58 (m, 1H IR (KBr) 2936, 1518, 1464, 13 mp 169-172 °C 1H NMR (CDCl ₃) \$ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H IR (KBr) 3458, 2935, 1611, 18	1,1930	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.80 (s, 3H), 2.62 (s, 3H), 3.21 (s, 3H), 3.48 (s, 3H), 3.51 (s, 3H), 3.90 (s, 3H), 4.64 (d, J =
IR (KBr) 2936, 1518, 1464, 13 mp 169-172 °C ¹ H NMR (CDCl ₃) ° 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H IR (KBr) 3458, 2935, 1611, 15	0071-1	6.6 Hz, 2H), 5.51-5.58 (m, 1H), 6.97-7.04 (m, 3H), 7.37-7.51 (m, 4H)
mp 169-172 °C ¹ H NMR (CDCl ₃) δ 1.76 (s, ² 554-5.61 (m, 1H), 5.83 (s, 1H ² IR (KBr) 3458, 2935, 1611, 18		IR (KBr) 2936, 1518, 1464, 1375, 1362, 1246, 1175, 1153, 1013, 968, 872, 805, 529 cm ⁻¹
¹ H NMR (CDCl ₃) δ 1.76 (s, 5.54-5.61 (m, 1H), 5.83 (s, 1H IR (KBr) 3458, 2935, 1611, 18		mp 169-172 °C
5.54-5.61 (m, 1H), 5.83 (s, 1H IR (KBr) 3458, 2935, 1611, 18	1.1940	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (s, 3H), 3.38 (s, 3H), 3.47 (s, 3H), 3.89 (s, 3H), 4.65 (d, J = 6.6 Hz, 2H), 5.06 (s, 1H),
IR (KBr) 3458, 2935, 1611, 1520, 1458, 1392, 1244, 1222, 1015, 828, 803 cm ⁻¹	01.71-1	5.54-5.61 (m, 1H), 5.83 (s, 1H), 6.92-7.00 (m, 3H), 7.05-7.09 (m, 2H), 7.28-7.33 (m, 2H)
		IR (KBr) 3458, 2935, 1611, 1520, 1458, 1392, 1244, 1222, 1015, 828, 803 cm ⁻¹

Table 246

1-1241 5-47 (m, 1H), 6.83 (s, 1H), 7.03 IR (KBr) 2938, 1686, 1516, 148 mp 117-118 °C 1H NMR (CDCl3)	¹ H NMR (CDCl ₁) δ 1.73 (s, 3H), 1.79 (s, 3H), 2.55-3.00 (m, 3H), 3.21 (s, 3H), 3.22-3.80 (m, 6H), 4.55-4.63 (m, 2H), 5.41-5.47 (m, 1H), 6.83 (s, 1H), 7.03-7.70 (m, 8H) IR (KBr) 2938, 1686, 1516, 1481, 1378, 1235, 1179, 1152, 1081, 847, 799, 675, 527 cm ⁻¹ mp 117-118 ℃ ¹ H NMR (CDCl ₂) δ 1.77 (s, 3H)1.81 (d, J = 0.6 Hz, 3H), 2.11 (s, 3H), 2.19 (s, 3H), 3.38 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 4.75 (br s, 1H), 5.54-5.90 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) IR (CHCl ₃) 3596, 3010, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm ⁻¹ foam ¹ H NMR (CDCl ₃) δ 3.43 (s, 3H), 3.72 (s, 3H), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, 2H), 7.09 (d, J = 2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H), 7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) IR (KBr) 3432, 1611, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
	183 (s, 1H), 7.03-7.70 (m, 8H) 1686, 1516, 1481, 1378, 1235, 1235, 1179, 1152, 1081, 847, 799, 675, 527 cm ⁻¹ 1886, 1516, 1481, 1378, 1235, 1235, 1179, 1152, 1081, 847, 799, 675, 527 cm ⁻¹ 13) \$\delta\$ 1.77 (s, 3H) 1.81 (d, J = 0.6 Hz, 3H), 2.11 (s, 3H), 2.19 (s, 3H), 7.20-7.25 (m, 2H) 14. \$\delta\$ 1.77 (s, 3H) 1.81 (d, J = 0.6 Hz, 3H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) 15. \$\delta\$ 2.010, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm ⁻¹ 16. \$\delta\$ 3.43 (s, 3H), 3.72 (s, 3H), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (d, J = 2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H) 17. \$\delta\$ 2.1 Hz, 1H), 7. \$\delta\$ 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) 18. \$\delta\$ 1.622, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
	1686, 1516, 1481, 1378, 1235, 1235, 1179, 1152, 1081, 847, 799, 675, 527 cm ⁻¹ 13) δ 1.77 (s, 3H)1.81 (d, J = 0.6 Hz, 3H), 2.11 (s, 3H), 2.19 (s, 3H), 3.38 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 4.75 14. 5.90 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) 15. 5.00 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) 16. 3010, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm ⁻¹ 17. 10, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm ⁻¹ 18. 19. 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (dd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (dd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) 18. 111, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
	 [13] 6 1.77 (s, 3H)1.81 (d, J = 0.6 Hz, 3H), 2.11 (s, 3H), 2.19 (s, 3H), 3.38 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 4.75 5.50 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) 5.60 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) 5.61 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, 1Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (dz, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) 5.7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) 6.7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 10.71, 10.15, 939, 824, 778, 758 cm⁻¹
	13) δ 1.77 (s, 3H)1.81 (d, J = 0.6 Hz, 3H), 2.11 (s, 3H), 2.19 (s, 3H), 3.38 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 4.75 -5.90 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) -5.90 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) -6. 3010, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm ⁻¹ -13) δ 3.43 (s, 3H), 3.72 (s, 3H), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, 1H) -2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H) -2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) -2.1 Hz, 1H3, 7.15 Hz, 1H3, 8.61 (brd, J = 4.8 Hz, 1H) -2.1 Hz, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
	.5.90 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) 96, 3010, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm ⁻¹ 1313) δ 3.43 (s, 3H), 3.72 (s, 3H), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, 1Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (d, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) 1.1011, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
	96, 3010, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm. ¹ 13) δ 3.43 (s, 3H), 3.72 (s, 3H), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, 1Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (d, J), 7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) 1.1611, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm. ¹
	(ddd, J = 7.8, 7.8, 1.5, 1.8), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, 1H), 7.10 (ddd, J = 7.8, 1.8, 1.8, 1.8), 7.8, 1.8 Hz, 1H), 7.53 (d, 1.8, 1.8, 7.8, 1.8, 7.8, 1.8, 1.8, 1.8, 1.8, 1.8, 1.8, 1.8, 1
	(d) 3.43 (s, 3H), 3.72 (s, 3H), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (d, J, 7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) (a) 7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H)
	= 2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (d, J, 7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) 1611, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
), 7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) , 1611, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
	, 1611, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm ⁻¹
	33) 8 3.45 (s, 3H), 3.75 (s, 3H), 5.01 (s, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.99 (dd, J = 8.4, 2.1 Hz,
IR (KBr) 3433, 16 foam	1H), 7.10 (d, $J = 2.1$ Hz, 1H), 7.14 (d, $J = 8.4$ Hz, 1H), 7.30 ~ 7.36 (m, 3H), 7.46 ~ 7.49 (m, 2H), 7.54 (d, $J = 8.7$ Hz, 2H)
foam	IR (KBr) 3433, 1612, 1589, 1523, 1489, 1403, 1224, 1192, 1113, 1070, 1013, 938, 813, 758 cm ⁻¹
H NMR (CDCI3)	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 5.01 (s, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.99 (dd, J = 5.1, 3.6 Hz,
I-1245 1H), 6.99 (dd, J = 8.4, 2.1 Hz,	J = 8.4, 2.1 Hz, 1H), 7.10 (d, $J = 2.1 Hz$, 1H), 7.11 (d, $J = 8.4 Hz$, 1H), 7.27 (dd, $J = 3.6, 1.0 Hz$, 1H), 7.29 (dd, $J = 8.4 Hz$, 1H), 7.27 (dd, $J = 8.4 Hz$), 7.29 (dd, $J = 8.4 Hz$), 7.29 (dd, $J = 8.4 Hz$)
= 5.1, 1.0 Hz, 1H), 7.54 (d, J =	1H), $7.54 (d, J = 8.7 Hz, 2H)$
IR (KBr) 3433, 16	IR (KBr) 3433, 1612, 1589, 1523, 1488, 1403, 1241, 1224, 1192, 1113, 1070, 1011, 826 cm ⁻¹

Table 247

	foam
	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.93 (s, 2H), 5.70 (d, J = 1.5 Hz, 1H), 5.75 (d, J = 1.5 Hz, 1H), 6.45 (s, 1H),
I-1246	6.92 (d, J = 8.7 Hz, 2H), 6.99 (dd, J = 8.4, 2.1 Hz, 1H), 7.05 (d, J = 8.4 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.54 (d, J = 8.7 Hz,
	2H)
	IR (KBr) 3432, 1611, 1590, 1523, 1489, 1403, 1224, 1193, 1113, 1071, 1010, 938, 826 cm ⁻¹
	foam
٠	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 5.53 (d, J = 10.5 Hz, 1H), 5.69 (d, J = 16.5 Hz, 1H), 6.11 (ddd, J = 16.5, 10.5.
I-1247	$1.1247 \mid 6.3 \text{ Hz}, 1\text{ H}$), 6.44 (d, J = 6.3 Hz, 1H), 6.45 (s, 1H), 6.88 (d, J = 8.4 Hz, 1H), 6.91 ~ 6.93 (m, 2H), 6.92 (d, J = 8.7 Hz, 2H),
	7.53 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3433, 1611, 1592, 1522, 1485, 1403, 1226, 1106, 1059, 814 cm ⁻¹
	foam
	¹ H NMR (CDCl ₃) δ 1.16 (t, J = 7.5 Hz, 3H), 2.26 (tq, J = 2.1, 7.5 Hz, 2H), 3.45 (s, 3H), 3.75 (s, 3H), 4.76 (t, J = 2.1 Hz, 2H),
I-1248	$1.1248 \mid 6.45 \text{ (s, 1H), } 6.91 \text{ (d, } J = 8.7 \text{ Hz, } 2\text{H), } 6.96 \text{ (dd, } J = 2.1, 8.4 \text{ Hz, } 1\text{H), } 7.06 \text{ (d, } J = 8.4 \text{ Hz, } 1\text{H), } 7.07 \text{ (d, } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{H), } 7.53 \text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ Hz, } 1\text{ (d. } J = 2.1 \text{ (d. } J = 2.1 (d.$
	J = 8.7 Hz, 2H
	IR (KBr) 3434, 2230, 1612, 1590, 1523, 1479, 1225, 1113, 1070, 1005, 938, 815 cm ⁻¹
	foam
	¹ H NMR (CDCl ₃) δ 3.38 (s, 3H), 3.67 (s, 3H), 5.12 (s, 2H), 6.43 (s, 1H), 6.56 (d, J = 3.3 Hz, 1H), 6.79 (dd, J = 2.1, 8.1 Hz.
I-1249	1H), 6.84 (d, $J = 8.7$ Hz, 2H), 6.87 (d, $J = 2.1$ Hz, 1H), 7.02 (d, $J = 3.3$ Hz, 1H), 7.02 (d, $J = 8.1$ Hz, 1H), 7.45 (d, $J = 8.7$ Hz.
	2H)
	IR (KBr) 3431, 1698, 1611, 1523, 1489, 1405, 1246, 1114, 1071, 1012, 816, 786 cm ⁻¹
	¹ H NMR (CDCl ₃) δ 3.38 (s, 3H), 3.67 (s, 3H), 4.66 (tt, J = 2.7, 6.9 Hz, 2H), 4.90 (tt, J = 2.7, 6.9 Hz, 2H), 5.43 (tt, J = 6.9.
I-1250	6.9 Hz, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.96 (br.s, 2H), 7.07 (s, 1H), 7.53 (d, J = 8.7 Hz, 2H)
,	IR (KBr) 3430, 1955, 1612, 1589, 1522, 1489, 1404, 1248, 1113, 1070, 1008, 938, 845, 825 cm.

	foam
	¹ H NMR (CDCl ₃) δ 1.69 (dd, J = 3.3, 6.9 Hz, 3H), 3.46 (s, 3H), 3.74 (s, 3H), 4.63 (dd, J = 2.4, 6.3 Hz, 2H), 5.28 (m, 1H),
I-1251	5.33 (m, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.95 (d, J = 1.5 Hz, 1H), 6.96 (br.s, 1H), 7.06 (d, J = 1.5 Hz, 1H), 7.52 (d, J
	= 8.7 Hz, 2H)
	IR (KBr) 3436, 2933, 1968, 1612, 1587, 1523, 1489, 1464, 1404, 1112, 1071, 1011, 998, 824 cm ⁻¹
	foam
	¹ H NMR (CDCl ₃) δ 1.02 (t, J = 7.2 Hz, 3H), 2.05 (ddq, J = 3.3, 6.3, 7.2 Hz, 2H), 3.46 (s, 3H), 3.74 (s, 3H), 4.64 (dd, J = 2.4,
I-1252	6.0 Hz, 2H), 5.40 (m, 2H), 6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.94 (d, J = 2.1, 8.4 Hz, 1H), 6.97 (d, J = 8.4 Hz, 1H), 7.06 (d,
	J = 2.1 Hz, 1H), 7.54 (d, $J = 8.7 Hz$, 2H)
	IR (KBr) 3479, 2960, 2933, 1964, 1612, 1582, 1522, 1489, 1403, 1242, 1113, 1072, 1011, 999, 944, 872 cm ⁻¹
	foam
	¹ H NMR (CDCl ₃) δ 1.03 (d, J = 6.6 Hz, 6H), 2.34 (m, 1H), 3.46 (s, 3H), 3.74 (s, 3H), 4.63 (dd, J = 2.7, 6.3 Hz, 2H), 5.33 (m,
I-1253	1H), 5.44 (m, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.93 (d, J = 1.8, 7.8 Hz, 1H), 6.97 (d, J = 7.8 Hz, 1H), 7.06 (d, J = 1.8)
,	Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3434, 2958, 1960, 1612, 1589, 1523, 1489, 1226, 1113, 1071, 1011, 939, 825 cm ⁻¹
	foam
	¹ H NMR (CDCl ₃) δ 2.62 (d, J = 2.4 Hz, 1H), 3.45 (s, 3H), 3.75 (s, 3H), 4.18 (dd, J = 7.2, 11.4 Hz, 1H), 4.38 (dd, J = 2.4, 11.4
I-124	Hz, 1H), 4.94 (ddd, J = 2.4, 2.4, 7.2 Hz, 1H), 6.44 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.98 (d, J = 8.4 Hz, 1H), 7.01 (d, J = 1.8,
	8.4 Hz, 1H), 7.08 (d, J = 1.8 Hz, 1H), 7.52 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3434, 3283, 2127, 1612, 1586, 15323, 1487, 1226, 1115, 1069, 1007, 943, 825 cm ⁻¹

Table 249

	mp 148-150 °C
1 1955	¹ H NMR (CDCl ₃) δ 2.99 (s, 6H), 3.75-3.80 (br, 2H), 3.75 (s, 3H), 3.77 (s, 3H), 6.45-6.53 (m, 2H), 6.79-6.83 (m, 2H), 6.88 (s,
6621-1	1H), 6.95 (s, 1H), 7.17-7.23 (m, 1H), 7.48-7.51 (m, 2H)
	IR (KBr) 3600-2800(br), 1630, 1609, 1530, 1492, 1461, 1444, 1388, 1331, 1209, 1165, 1125, 1050, 1028 cm ⁻¹
	mp 209-212 ℃
1 1986	¹ H NMR (CDCl ₃) δ 3.00 (s, 6H), 3.11 (s, 3H), 3.76 (s, 3H), 3.79 (s, 3H), 6.66 (br s, 1H), 6.78-6.83 (m, 2H), 6.87 (s, 1H),
0671-1	6.98 (s, 1H), 7.02 (dd, J = 2.4, 8.4 Hz, 1H), 7.10 (dd, J = 2.4, 10.8 Hz, 1H), 7.39-7.52 (m, 3H)
	IR (KBr) 3600-2800(br), 1627, 1609, 1530, 1494, 1463, 1390, 1325, 1213, 1154, 1127, 1052, 1028, 984 cm ⁻¹
	mp 198-200 ℃
T 1987	¹ H NMR (CDCl ₃) δ 1.43 (t, J = 7.5 Hz, 3H), 3.00 (s, 3H), 3.19-3.26 (m, 2H), 3.76 (s, 3H), 3.79 (s, 3H), 6.69 (br s, 1H),
1.777.1	6.79-6.85 (m, 2H), 6.86 (s, 1H), 6.97 (s, 1H), 7.01 (dd, J = 2.4, 8.4 Hz, 1H), 7.09 (dd, J = 2.4, 10.8 Hz, 1H), 7.37-7.53 (m, 3H)
	IR (KBr) 3600-2800(br), 1611, 1530, 1492, 1495, 1445, 1389, 1355, 1325, 1207, 1163, 1141, 1122, 1051, 1025, 981 cm ⁻¹
	IR (KBr) 1612, 1526, 1490, 1444, 1349, 1301, 1196, 1129.1038 cm ⁻¹
1 1050	mp 102-103 °C
1-1200	¹ H NMR (CDCl ₃) δ 2.27 (s, 3H), 2.31 (s, 3H), 3.00 (s, 6H), 4.78 (d, J = 6.6 Hz, 2H), 6.24 (t, J = 6.6Hz, 1H), 6.80 (d, J = 8.4
	Hz , $2H$), $6.96 \cdot 7.16$ (m, $5H$), 7.26 (d, $J = 8.4$ Hz , $2H$)
	mp 114-115 ℃
	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.79 (s, 3H), 3.61 (s, 3H), 3.65 (s, 3H), 3.74 (s, 3H), 3.87 (s, 3H), 3.88 (s, 3H), 4.63 (d, J =
I-1259	6.9 Hz, 2H), 5.54-5.62 (m, 1H), 6.68 (s, 1H), 6.94-7.03 (m, 5H), 7.54 (d, J = 9.0 Hz, 2H)
	IR (KBr) 3433, 2932, 1682, 1605, 1580, 1519, 1465, 1439, 1389, 1290, 1253, 1237, 1186, 1140, 1109, 1089, 1039, 1029, 992,
	833 cm ⁻¹

Table 250

H NMR (CDCl ₃) 6 1.76 (s. 3H), 1.81 (s. 3H), 3.19 (s. 3H), 4.20 4.26 (m, 4H), 4.62 (d. J = 6.6 Hz, 2H), 6.56 (m, 1H), 6.53 (s. 1H), 7.00 7.20 (m, 3H), 7.49 (ABq, J = 8.1 Hz, 4H) R(KBr) 3433, 2933, 1523, 1483, 1463, 1433, 1371, 1359, 1340, 1269, 1266, 1227, 1220, 1172, 1149, 1127, 1098 cm ⁻¹ mp 135-137 °C		mp 163·165 C
1H), 6.53 (s, 1H), 7.00-7.20 (n IR (KBr) 3433, 2933, 1523, 14 mp 135-137 °C ¹H NMR (CDCl3) \$\delta\$ -0.03-0.0 3.48 (d, J = 4.8 Hz, 2H), 3.78 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3433, 2936, 1604, 18 mp 181-182 °C ¹H NMR (CDCl3) \$\delta\$ 1.76 (s, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 14 mp 80-82 °C ¹H NMR (CDCl3) \$\delta\$ -0.05-0.0 ³.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 14 mp 112-113 °C ¹H NMR (CDCl3) \$\delta\$ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR (KBr) 3421, 3303, 2935, 17	1960	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 3.19 (s, 3H), 3.72 (s, 3H), 4.20-4.26 (m, 4H), 4.62 (d, J = 6.6 Hz, 2H), 5.55 (m,
IR (KBr) 3433, 2933, 1523, 14 mp 135-137 °C ¹H NMR (CDCl ₃) ° -0.03-0.(3.48 (d, J = 4.8 Hz, 2H), 3.78 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3433, 2936, 1604, 18 mp 181-182 °C ¹H NMR (CDCl ₃) ° 1.76 (s, (m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 12 mp 80-82 °C ¹H NMR (CDCl ₃) ° -0.05-0.(3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 12 mp 112-113 °C ¹H NMR (CDCl ₃) ° 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR (KBr) 3421, 3303, 2935, 17	0071-1	1H), 6.53 (s, 1H), 7.00-7.20 (m, 3H), 7.49 (ABq, J = 8.1 Hz, 4H)
mp 135-137 °C 'H NMR (CDCl ₃) δ -0.03-0.0 3.48 (d, J = 4.8 Hz, 2H), 3.78 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3433, 2936, 1604, 18 mp 181-182 °C 'H NMR (CDCl ₃) δ 1.76 (s, (m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 1-2 mp 80-82 °C 'H NMR (CDCl ₃) δ -0.05-0.0 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1-2 mp 112-113 °C 'H NMR (CDCl ₃) δ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR (KBr) 3421, 3303, 2935, 17		IR (KBr) 3433, 2933, 1523, 1483, 1463, 1433, 1371, 1359, 1340, 1299, 1266, 1227, 1220, 1172, 1149, 1127, 1098 cm ⁻¹
1H NMR (CDCl ₃) δ -0.03-0.(3.48 (d, J = 4.8 Hz, 2H), 3.78 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3433, 2936, 1604, 18 mp 181-182 ℃ 1H NMR (CDCl ₃) δ 1.76 (s, (m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 14 mp 80-82 ℃ 1H NMR (CDCl ₃) δ -0.05-0.(3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 14 mp 112-113 ℃ 1H NMR (CDCl ₃) δ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR (KBr) 3421, 3303, 2935, 17		
3.48 (d, J = 4.8 Hz, 2H), 3.78 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3433, 2936, 1604, 18 mp 181-182 °C 1H NMR (CDCl ₃) ° 1.76 (s, m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 14 mp 80-82 °C 1H NMR (CDCl ₃) ° -0.05-0.0 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 14 mp 112-113 °C 1H NMR (CDCl ₃) ° 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR (KBr) 3421, 3303, 2935, 17		¹ H NMR (CDCl ₃) δ -0.03 0.03 (m, 2H), 0.36-0.42 (m, 2H), 1.00 (m, 1H), 1.75 (s, 3H), 1.79 (s, 3H), 2.56 (s, 3H), 3.20 (s, 3H),
(ABq, J = 8.7 Hz, 4H) IR (KBr) 3433, 2936, 1604, 18 mp 181-182 °C 'H NMR (CDCl ₃) ° 1.76 (s, (m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 1- mp 80-82 °C 'H NMR (CDCl ₃) ° -0.05-0.0 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1- mp 112-113 °C 'H NMR (CDCl ₃) ° 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR(KBr) 3421, 3303, 2935, 17	1.1261	
IR (KBr) 3433, 2936, 1604, 18 mp 181-182 C		
mp 181-182 C 1H NMR (CDCl ₃) δ 1.76 (s, (m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 1- mp 80-82 C 1H NMR (CDCl ₃) δ -0.05-0.0 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1- mp 112-113 C 1H NMR (CDCl ₃) δ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR(KBr) 3421, 3303, 2935, 17		IR (KBr) 3433, 2936, 1604, 1519, 1481, 1467, 1369, 1336, 1245, 1231, 1201, 1177, 1153, 1081 cm ⁻¹
1H NMR (CDCl ₃) δ 1.76 (s, (m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 1-6 IR (KBr) 3404, 1612, 1523, 1-6 IH NMR (CDCl ₃) δ -0.05-0.0 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1-6 IR (KBr) 3374, 1614, 1523, 1-6 IR (KBr) 3421, 1614, 1613, 1614, 1613, 1614) IR (KBr) 3421, 3303, 2935, 17 IR (KBr) 3421, 3303, 2935, 17		mp 181.182 °C
(m, 1H), 6.53 (s, 1H), 6.89-7.4 IR (KBr) 3404, 1612, 1523, 1-4 mp 80-82 °C 'H NMR (CDCl ₃) \$\delta\$ -0.05-0.0 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1-4 mp 112-113 °C 'H NMR (CDCl ₃) \$\delta\$ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR(KBr) 3421, 3303, 2935, 17	1 1069	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (s, 3H), 3.72 (s, 3H), 4.19-4.26 (m, 4H), 4.62 (d, J = 6.9 Hz, 2H), 4.91 (bs, 1H), 5.55
IR (KBr) 3404, 1612, 1523, 16 mp 80-82 °C 1H NMR (CDCl3)	7071-1	(m, 1H), 6.53 (s, 1H), 6.89-7.49 (m, 7H)
mp 80-82 °C 1H NMR (CDCl ₃) 6 -0.05-0. 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 14 mp 112-113 °C 1H NMR (CDCl ₃) 6 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H) IR(KBr) 3421, 3303, 2935, 17		IR (KBr) 3404, 1612, 1523, 1485, 1462, 1434, 1373, 1266, 1227, 1212, 1116, 1101 cm ⁻¹
1H NMR (CDCl ₃) 6 -0.05-0. 3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1- mp112-113 °C 1H NMR (CDCl ₃) 6 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H IR(KBr) 3421, 3303, 2935, 17		mp 80-82 °C
3.75 (s, 3H), 3.88 (s, 3H), 4.6 7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1- mp112-113 °C 'H NMR (CDCl ₃) δ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H IR(KBr) 3421, 3303, 2935, 17		¹ H NMR (CDCl ₃) δ -0.05-0.09 (m, 2H), 0.44-0.51 (m, 2H), 1.04 (m., 1H), 1.74 (s, 3H), 1.78 (s, 3H), 3.33 (d, J = 4.8 Hz, 2H),
7.52-7.56 (m, 2H) IR (KBr) 3374, 1614, 1523, 1- mp112-113 °C 'H NMR (CDCl ₃) δ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H IR(KBr) 3421, 3303, 2935, 17	1.1263	3.75 (s, 3H), 3.88 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 4.98 (s, 1H), 5.57 (m, 1H), 6.15 (s, 1H), 6.46 (s, 1H), 6.89-7.03 (m, 5H),
IR (KBr) 3374, 1614, 1523, 1- mp112-113 °C 1H NMR (CDCl ₃) ° 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H IR(KBr) 3421, 3303, 2935, 17		7.52.7.56 (m, 2H)
mp112-113 °C ¹ H NMR (CDCl ₃) δ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H IR(KBr) 3421, 3303, 2935, 17		IR (KBr) 3374, 1614, 1523, 1490, 1465, 1446, 1391, 1267, 1235, 1172, 1113, 1073 cm ⁻¹
¹ H NMR (CDCl ₃) δ 2.19 (s, 7.16 (s, 1H), 7.31-7.43 (m, 5H IR(KBr) 3421, 3303, 2935, 17		
7.16 (s, 1H), 7.31-7.43 (m, 5H IR(KBr) 3421, 3303, 2935, 17	1,1964	¹ H NMR (CDCl ₃) δ 2.19 (s, 3H), 2.28 (s, 3H), 3.91 (s, 3H), 5.20 (s, 2H), 6.84-6.86 (m, 1H), 6.92-6.97 (m, 2H), 7.09 (s, 1H),
IR(KBr) 3421, 3303, 2935, 1711, 1519, 1490, 1365, 1231, 1198, 1178, 1134, 1009, 864 cm ⁻¹	£071.1	7.16 (s, 1H), 7.31-7.43 (m, 5H), 7.47-7.49 (m, 2H), 7.60 (d, J = 10.2 Hz, 1H), 8.01 (brs, 1H)
		IR(KBr) 3421, 3303, 2935, 1711, 1519, 1490, 1365, 1231, 1198, 1178, 1134, 1009, 864 cm ⁻¹

Table 251

	mp85-86 ℃
1005	¹ H NMR (CDCl ₃) δ 2.85 (s, 3H), 3.32 (s, 3H), 3.82 (s, 3H), 3.96 (s, 3H), 5.38 (s, 2H), 7.04 (s, 1H), 7.22 (s, 1H), 7.25 (d, J =
C971-1	8.4 Hz, 1H), 7.35 (d, J = 8.4 Hz, 1H), 7.48-7.67 (m, 7H), 8.45 (brs, 1H)
	IR(KBr) 3432, 2938, 1740, 1608, 1517, 1483, 1396, 1366, 1271, 1179, 1111, 1080, 832, 810, 698 cm ⁻¹
	mp79-80 ℃
2261 1	¹ H NMR (CDCl ₃) δ 2.14 (s, 3H), 3.50 (s, 3H), 4.95 (brs, 1H), 5.22 (s, 2H), 5.88 (brs, 1H), 6.81 (s, 1H), 6.94 (d, J = 8.1 Hz,
0071-1	2H), 7.02-7.14 (m, 3H), 7.37-7.56 (m, 7H)
	IR(KBr) 3409, 2933, 1612, 1522, 1488, 1454, 1400, 1266, 1229, 1199, 1162, 1007, 834, 696 cm ⁻¹
	mp87-88 ℃
1 1967	¹ H NMR (CDCl ₃) δ 2.13 (s, 3H), 2.59 (s, 3H), 3.20 (s, 3H), 3.55 (s, 3H), 5.22 (s, 2H), 6.99-7.17 (m, 5H), 7.34-7.48 (m, 6H),
1071-1	7.67 (d, J = 8.4 Hz, 2H)
	IR(KBr) 3428, 2931, 1612, 1522, 1488, 1454, 1400, 1266, 1230, 1163, 1007, 835 cm ⁻¹
	mp76-77 °C
	¹ H NMR (CDCl ₃) δ 1.72 (s, 3H), 1.77 (s, 6H), 1.81 (s, 3H), 2.69 (s, 3H), 3.24 (s, 3H), 3.61 (s, 3H), 3.79 (s, 3H), 4.12-4.20 (m,
I.1268	1H), 4.55-4.61 (m, 1H), 4.64 (d, J = 6.6 Hz, 2H), 5.25 (t, J = 7.5 Hz, 1H), 5.50 (t, J = 6.4 Hz, 1H), 6.85 (8, 1H), 7.05-7.11 (m,
	2H), 7.34-7.40 (m, 3H)
	IR(KBr) 3423, 2939, 1707, 1521, 1484, 1367, 1241, 1178, 1079, 1034, 972, 799, 521 cm ⁻¹
	mp73-74 °C
1.1960	¹ H NMR (CDCl ₃) δ 2.17 (s, 3H), 2.28 (s, 3H), 5.16 (s, 2H), 5.71 (brs, 1H), 6.83 (d, J = 8.1 Hz, 1H), 6.97.7.00 (m, 2H), 7.08
	(s, 1H), 7.15 (s, 1H), 7.32-7.33 (m, 2H), 7.36-7.45 (m, 5H), 7.60 (d, J = 10.5 Hz, 1H), 8.05 (brs, 1H)
	IR(KBr) 3410, 2923, 1718, 1606, 1540, 1521, 1489, 1424, 1282, 1179, 976, 728 cm ⁻¹

Table 252

	იან5-67 ზ
000	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.14 (s, 3H), 2.72 (s, 3H), 3.20 (s, 3H), 3.56 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H),
0/21-1	5.53 (t, J = 6.6 Hz, 1H), 7.01-7.11 (m, 3H), 7.18 (s, 1H), 7.37 (d, J = 8.7 Hz, 2H), 7.67 (d, J = 8.7 Hz, 2H), .
-	IR(KBr) 3434, 2938, 1519, 1478, 1365, 1267, 1176, 1151, 968, 871, 799, 524 cm ⁻¹ .
	mp99-100 °C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 6H), 1.79 (s, 3H), 1.81 (s, 3H), 3.52 (s, 3H), 3.72 (s, 3H), 4.61 (d, J = 7.2 Hz, 2H), 5.36 (t, J = 6.6
I-1271	1-1271 Hz, 1H), 5.53 (t, J = 5.7 Hz, 1H), 5.69 (brs, 1H), 5.81 (brs, 1H), 6.43 (s, 1H), 6.46-6.52 (m, 1H), 6.95 (s, 2H), 7.05 (s, 1H),
	7.10-7.16 (m, 1H)
	IR(KBr) 3496, 3407, 2933, 1638, 1535, 1493, 1098, 1000 cm ⁻¹
	mp75-76 ℃
1 1070	¹ H NMR (CDCl ₃) δ 2.17 (s, 3H), 2.28 (s, 3H), 3.12 (s, 3H), 5.18 (s, 2H), 7.09-7.14 (m, 4H), 7.26-7.47 (m, 8H), 7.61 (d, J =
7171-1	11.4 Hz, 1H), 8.00 (brs, 1H)
	IR(KBr) 3330, 2927, 1731, 1607, 1541, 1521, 1488, 1364, 1290, 1169, 1105, 975, 878, 811 cm ⁻¹
	mp112-113 °C
1 1072	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.11 (s, 3H), 3.47 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 4.83 (brs, 1H), 5.56 (t, J =
0.71.1	7.2 Hz, 1H), 5.84 (brs, 1H), 6.78 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 7.02.7.10 (m, 3H), 751 (d, J = 8.4 Hz, 2H), .
	IR(KBr) 3498, 2978, 1613, 1522, 1487, 1453, 1302, 1204, 1232, 1196, 987, 812 cm ⁻¹
	oil
	¹ H NMR (CDCl ₃) δ 1.73 (s, 3H), 1.76 (s, 3H), 1.77 (s, 3H), 1.79 (s, 3H), 2.22 (s, 3H), 2.27 (s, 3H), 3.73 (d, J = 6.0 Hz, 2H),
I-1274	3.88 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.36 (t, J = 6.0 Hz, 1H), 5.57 (t, J = 6.6 Hz, 1H), 6.40-6.51 (m, 2H), 6.87-6.95 (m, 3H),
	7.05-7.14 (m, 3H)
	IR(CHCl ₃) 3021, 2934, 1628, 1523, 1492, 1235, 1219, 1139 cm ⁻¹

Table 253

	mp64-65 ℃
1 1075	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.77 (s, 6H), 1.82 (s, 3H), 2.16 (s, 3H), 2.29 (s, 3H), 3.23 (s, 3H), 4.36 (d. J = 7.5 Hz. 2H)
0/71-1	4.64 (d, J = 6.3 Hz, 2H), 5.28 (t, J = 8.4 Hz, 1H), 5.51 (t, J = 6.3 Hz, 1H), 7.01.7.16 (m, 6H), 7.24.7.35 (m, 2H)
	IR(KBr) 3422, 2926, 1698, 1519, 1489, 1367, 1209, 1170, 962, 807 cm ⁻¹
	lio
1 1076	¹ H NMR (CDCl ₃) δ 2.21 (s, 3H), 2.26 (s, 3H), 3.95 (d, $J = 6.6$ Hz, 2H), 4.28 (brs, 1H), 4.78 (d, $J = 6.0$ Hz, 2H) 6.05 (t. $J = 1$
0/71-1	6.3 Hz, 1H), 6.24 (t, J = 6.3 Hz, 1H), 6.36-6.49 (m, 2H), 6.97-7.15 (m, 6H)
	IR(CHCl ₃) 3446, 3009, 1628, 1525, 1492, 1274, 1224, 1130, 883 cm ⁻¹
	mp64-65 ℃
1 1977	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (s, 6H), 1.85 (s, 3H), 2.23 (s, 3H), 2.30 (s, 3H), 3.74 (d, J = 6.3 Hz, 2H). 4.64 (d. J = 6.0)
177.1	Hz, 2H), 5.38 (t, J = 6.6 Hz, 1H), 5.55 (t, J = 6.9 Hz, 1H), 5.73 (brs, 1H), 6.41-6.50 (m, 2H), 6.84-7.15 (m, 6H)
	IR(KBr) 3354, 2971, 1627, 1522, 1490, 1274, 1200, 1128, 990, 843 cm ⁻¹
	mp 153.154 °C
	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 1.95 (s, 12H), 4.64 (d, J = 6.9 Hz, 2H), 4.78 (s, 1H), 5.57 (t. J = 6.9 Hz, 1H)
I-1278	6.85 (ddd, J = 8.3, 2.1, 1.2 Hz, 1H), 6.90 (d, J = 8.6 Hz, 2H), 6.92 (dd, J = 12.0, 2.1 Hz. 1H). 7.04 (d. J = 8.6 Hz, 2H) 7.04 (t. J
	$= 8.3 \mathrm{Hz}, 1 \mathrm{H}),$
	IR (KBr) 3433, 1514, 1293, 1262, 1242, 1112, 984 cm ⁻¹
	mp 115-117 C
1,1970	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.23 (s, 3H), 3.21 (s, 3H), 3.81 (s, 3H), 4.63 (d, $J = 6.6$ Hz, 2H). 5.55 (t. $J = 6.6$
	Hz, 1H), 6.81 (s, 1H), 7.02 (t, J = 8.6 Hz, 1H), 7.20 (s, 1H), 7.24-7.28 (m, 1H), 7.33-7.44 (m, 3H)
	IR (KBr) 3434, 1522, 1492, 1337, 1218, 1200, 1148, 979, 876 cm ⁻¹
	1210

	mp 88.90 °C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (s, 3H), 2.24 (s, 3H), 3.80 (s. 3H), 4.63 (d. $J = 6.7 \text{ Hz}$ 2H) 4.88 (hr s. 1H) 5.55 (4. 1 –
I-1280	6.7 Hz, 1H), 6.83 (s, 1H), 6.90 (d, J = 8.7 Hz, 2H), 7.01 (t, J = 8.6 Hz, 1H), 7.18 (s, 1H), 7.24.7 28 (m, 3H), 7.36 (dd, 1 = 19.9)
	2.1 Hz, 1H)
	IR (KBr) 3400, 1523, 1493, 1263, 1217, 1128, 977, 836 cm ⁻¹
	mp 158-159 °C
	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (d, J = 0.3 Hz, 3H), 2.10 (s, 3H), 2.34 (s. 3H), 2.50 (s. 3H), 3.87 (s. 3H), 4.63 (d. 1 = 6.0)
I-1281	Hz, 2H), 5.14 (s, 1H), 5.55 (m, 1H), 5.88 (s, 1H), 6.77-6.82 (m, 2H), 6.85-6.91 (m, 2H), 6.98 (d, J = 8.1 Hz, 1H), 7.12 (2, 1H)
	7.18-7.24 (m, 2H)
	IR (KBr) 3465, 1610, 1516, 1473, 1382, 1322, 1307, 1266, 1240, 1213, 1179, 1168, 1147, 1100, 688, 636, 2001
	mp 85-86 °C
1.1989	¹ H NMR (CDCl ₃) δ 0.99 (d, J = 6.2 Hz, 6H), 1.71-1.98 (m, 3H), 2.27 (s, 3H), 2.29 (s. 3H), 3.20 (s. 3H), 3.88 (s. 3H), 4.10 (s. 1
7071-1	= 6.8 Hz, 2H), 6.88 (dd, J = 2.0, 8.6 Hz, 1H), 6.88 (d, J = 2.0 Hz, 1H), 6.95 (d. J = 8.6 Hz, 1H), 7.30.7 46 (m. 4H)
,	IR (KBr) 1519, 1488, 1375, 1255, 1243, 1214, 1204, 1173, 1154, 1134, 867, 867, 792 cm. 1
	mp 117-118 °C
1.1983	¹ H NMR (CDCl ₃) δ 0.99 (d, J = 6.3 Hz, 6H), 1.75-1.94 (m, 3H), 2.27 (8, 3H), 2.28 (8, 3H), 3.88 (8, 3H), 4.10 (4, 1 = 6.6 Hz)
	2H), 4.91 (s, 1H), 6.86-6.91 (m, 4H), 6.94 (d, J = 8.7 Hz, 1H), 7.12 (s, 1H), 7.15 (s, 1H), 7.22.7.97 (m, 9H)
	IR (KBr) 3438, 1611, 1522, 1490, 1475, 1464, 1446, 1256, 1242, 1212, 1180, 1171, 1137, 1039, 824, 816
	mp 156-157 °C
	¹ H NMR (CDCl ₃) & 3.46 (s, 3H), 3.76 (s, 3H), 3.89 (s, 3H), 4.78 (d, J = 6.3 Hz, 2H), 4.99 (s, 1H), 5.96 (s, 1H), 6.95 (t, 1 = 6.3)
I.1284	Hz, 1H), 6.47 (s, 1H), 6.90-6.95 (m, 2H), 6.93 (d, J = 7.8 Hz, 1H), 7.04 (dd, J = 9.1.78 Hz, 1H), 7.04 (d, J 1 = 9.1.78 Hz, 1H)
	7.51-7.57 (m, 2H)
	IR (KBr) 3455, 1612, 1522, 1487, 1456, 1396, 1269, 1234, 1223, 1209, 1173, 1140, 1115, 1034, 205, 207, 210
	, rec., rec., rec., rec., 1110, 1110, 1024, 885, 825, 813 cm.

Table 255

	mp 84-85 °C
I.1985	¹ H NMR (CDCl ₃) δ 1.00 (d, $J = 6.6$ Hz, 6H), 1.71-1.96 (m, 3H), 2.27 (s, 6H), 4.11 (t. $J = 6.9$ Hz, 2H) 4.80 (hr. s. 1H) 6.86
0071	6.92 (m, 2H), 6.97-7.14 (m, 5H), 7.22-7.27 (m, 2H)
	IR (KBr) 3389, 1523, 1491, 1476, 1427, 1301, 1276, 1233, 1196, 1168, 1126, 836, 815, cm. 1
	mp 152-153 °C
1.198G	¹ H NMR (CDCl ₃) & 1.76 (s, 3H), 1.80 (d, J=0.6 Hz, 3H), 2.12 (s, 3H), 2.20 (s, 3H) 3.39 (s, 3H) 3.87 (s, 3H) 4.64 (d, 1-6.2)
0071-1	Hz, 2H), 4.79 (br s, 1H), 5.56-5.61 (m, 1H), 6.82-6.97 (m, 6H), 7.21-7.26 (m, 2H)
	IR (CHCl3) 3596, 3440, 3011, 2935, 1676, 1612, 1588, 1518, 1473, 1449, 1959, 1938, 1172, 2001.
	mp 123-125 °C
I-1287	¹ H NMR (CDCl ₃) δ -0.01-0.08 (m, 2H), 0.44-0.50 (m, 2H), 1.01 (m, 1H), 3.21 (g. 3H), 3.34 (d. J = 7.5 Hz, 9H), 9.75 / 2.21
	3.91 (s, 3H), 5.21 (s, 2H), 6.08 (s, 1H), 6.45 (s, 1H), 6.97.7.04 (m, 3H), 7.86.7.79 (m, 9H)
	mp 177-178 °C
	¹ H NMR (CDCl ₃) ô 0.27 (t, J = 4.8 Hz, 1H), 0.60 (dd, J = 4.8, 8.7 Hz, 1H), 1.13 (s. 3H), 1.17 (s. 3H), 1.13.1 22 (m. 1H), 2.46
1.1988	(s, 3H), 3.75 (s, 3H), 3.80 (s, 3H), 4.00 (dd, J = 7.8, 10.5 Hz, 1H), 4.12 (dd. J = 6.6, 10.5 Hz, 1H), 4.05 (dd. J = 6.6, 10.5 Hz, 1H), 4.15 (dd. J = 6.6, 10.5 Hz, 1
	6.46 (s, 1H), 6.91-7.02 (m, 5H), 7.52-7.56 (m, 2H)
	IR (KBr) 3479, 3434, 3389, 2940, 1614, 1589, 1523, 1490, 1466, 1395, 1361, 1319, 1971, 1938, 1918, 1174, 1197, 1117,
	1072, 1011 cm.1
	mp 153-155 °C
1.1989	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.80 (s, 3H), 2.25 (s, 3H), 3.80 (s, 3H), 3.89 (s. 3H) 4 63.4 65 (d. $l = 6.6$ Hz, $t = 0.0$ 4 80 $t = 0.0$
	1H), 5.57 (m, 1H), 6.86-6.97 (m, 6H), 7.18 (s, 1H), 7.45-7.48 (m, 2H)
	IR (CHCl ₃) 3596, 1609, 1523, 1493, 1464, 1387, 1256, 1173, 1138, 1042, 1032, 997, 834, cm. 1
	(3) 2.5 (3) 2.5 (4) 2.5 (5) 2.5 (6) 3.5 (6) 3.5 (7) 3.

Table 256

	mp 150-152 °C
1 1900	¹ H NMR (CDCl ₃) δ 2.25 (s, 3H), 3.80 (s, 3H), 3.90 (s, 3H), 4.74-4.80 (m, 3H), 6.26 (t, J = 6.0 Hz, 1H), 6.85-6.92 (m, 6H),
0671-1	7.19 (s, 1H), 7.45-7.48 (m, 2H)
	IR (CHCl ₃) 3596, 2958, 2938, 1609, 1523, 1493, 1464, 1389, 1328, 1257, 1173, 1140, 1102, 1030, 886, 854, 834 cm ⁻¹
	ľ
1 1901	1H NMR (CDCl3) & 1.76 (s, 3H), 1.79 (s, 3H), 2.28 (s, 3H), 2.31 (s, 3H), 3.01 (s, 6H), 3.88 (s, 3H), 4.63 (d, J = 6.6Hz, 2H),
1671-1	$5.53 \cdot 5.60$ (m, 1H), $6.76 \cdot 6.96$ (m, 5H), 7.15 (s, 2H), 7.28 (d, $J = 8.7$ Hz, 2H)
	IR (KBr) 1611, 1529, 1490, 1447, 1359, 1322, 1239, 1214, 1193, 1135, 1038,cm ⁻¹
·	mp 116-118 °C
	¹ H NMR (CDCl ₃) 2.24 (s, 3H), 3.81 (s, 3H), 4.77 (d, J = 6.3 Hz, 2H), 4.90 (br s, 1H), 6.23 (t, J = 6.3 Hz, 1H), 6.83 (s, 1H), 6.90
I-1292	1.1292 (d, $J = 8.7$ Hz, $2H$), 6.99 (t, $J = 8.6$ Hz, $1H$), 7.17 (s, $1H$), 7.25 (d, $J = 8.7$ Hz, $2H$), 7.27 (ddd, $J = 8.6$, 2.1 , 1.2 Hz, $1H$), 7.37
	(dd, J = 12.6, 2.1 Hz, 1H)
	IR (KBr) 3596, 1731, 1613, 1523, 1493, 1259, 1130, 1033, 885 cm ⁻¹
	mp 151-154 °C
1.1903	¹ H NMR (CDCl ₃) δ 2.23 (s, 3H), 3.21 (s, 3H), 3.80 (s, 3H), 3.93 (s, 3H), 5.20 (s, 2H), 6.81 (s, 1H), 6.95 (d, J = 8.4 Hz, 1H),
0071.1	7.05 (dd, J = 8.4, 2.1 Hz, 1H), 7.15 (d, J = 2.1 Hz, 1H), 7.21 (s, 1H), 7.30-7.50 (m, 9H)
	IR (KBr) 1490, 1361, 1243, 1148, 1032, 876 cm ⁻¹
	mp 119-121°C
_	¹ H NMR (CDCl ₃) δ 1.76 (s, 3H), 1.79 (s, 3H), 2.24 (s, 3H), 3.21 (s, 3H), 3.80 (s, 3H), 3.91 (s, 3H), 4.63 (d, J = 6.5 Hz, 2H),
I-1294	5.56 (t, J = 6.5 Hz, 1H), 6.82 (t)
	1H), 7.36 (d, J = 8.3 Hz, 2H), 7.43 (d, J = 8.3 Hz, 2H)
	IR (KBr) 1519, 1490, 1364, 1156, 1031, 971, 858 cm ⁻¹

	mp 135-137 °C
	¹ H NMR (CDCl ₃) δ 1.75 (s, 3H), 1.78 (s, 3H), 2.25 (s, 3H), 3.80 (s, 3H), 3.90 (s, 3H), 4.63 (d, J = 6.7 Hz, 2H), 4.95 (s, 1H)
1.1295	5.56 (t, J = 6.7 Hz, 1H), 6.84 (s, 1H), 6.90 (d, J = 8.7 Hz, 2H), 6.94 (d, J = 8.3 Hz, 1H), 7.10 (dd, J = 8.3 9.1 Hz, 1H), 7.12 (dd, J = 8.3 Pz, 1H), 7.10 (dd, J = 8.3 Pz, 1H), 7.12 (dd, J = 8.3 Pz, 1H), 7.13 (
	$J = 2.1 \mathrm{Hz}$, 1H), 7.21 (s, 1H), 7.26 (d, $J = 8.7 \mathrm{Hz}$, 2H)
	IR (KBr) 3423, 1609, 1523, 1493, 1258, 1219, 1142, 1033, 834 cm.
	mp 140-141 C
	¹ H NMR (CDCl ₃) δ 1.46 (t, J = 6.9 Hz, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 4.13 (a. J = 6.9 Hz, 2H) 4.77 (d. J = 6.0 Hz, 9H) 5.05
I-1296	1-1296 (s, 1H), 5.95 (s, 1H), 6.25 (t, $J = 6.0 \text{Hz}$, 1H), 6.47 (s, 1H), 6.90-6.97 (m. 3H), 7.01-7.06 (m. 9H), 7.50-7.57 (m. 9H), 7.50-7.57 (m. 9H)
	IR (KBr) 3463, 3433, 1613, 1521, 1491, 1259, 1400, 1267, 1235, 1204, 1167, 1136, 1119, 1007, 1076, 1010, 003, 004, 007,
	mp 204-205 °C
1.1907	1H NMR (DMSO d ₆) δ 2.21 (s, 3H), 2.22 (s, 3H), 2.87 (s, 3H), 3.02 (s. 3H), 4.96 (s. 2H) 6 80.6 86 (m. 9H) 7.05 7 11 (m.
071.1	4H), 7.13-7.19 (m, 2H), 7.20-7.27 (m, 1H)
	IR (KBr) 3153, 1644, 1590, 1522, 1487, 1437, 1314, 1264, 1231, 1197, 1127, 1067, 833, cm. 1
	mp 155-158 °C
1.1998	¹ H NMR (CDCl ₃) δ 3.21 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.42 (s, 4H), 5.93 (s. 1H), 6.44 (s. 1H), 6.90, 6.96 (m. 1H), 7.06
	7.11 (m, 1H), 7.19-7.39 (m, 13H), 7.67-7.72 (m, 2H)
	IR (KBr) 3445, 2940, 1615, 1521, 1483, 1367, 1149, 875, 707, 546, 526 cm ⁻¹
	mp 174-175 °C
1.1999	1H NMR (CDCl ₃) & 2.15 (s, 3H), 3.20 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.40 (s. 4H), 6.82 (s. 1H), 6.91.7 01 (m. 9H), 7.11
	7.39 (m, 13H), 7.65-7.70 (m, 2H)
	IR (KBr) 3028, 2936, 1618, 1520, 1482, 1365, 1176, 1151, 1079, 871, 798, 698, 527 cm ⁻¹
	110 170 100 100 100 1

Table 258

	mp 218-221 °C
1.1300	¹ H NMR (CDCl ₃) δ 2.69 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 6.83 (s, 1H), 6.86-6.93 (m. 1H) 7.02.7 15 (m. 9H)
0001-1	7.35-7.41 (m, 2H), 7.66-7.71 (m, 2H)
	IR (KBr) 3435, 3389, 2940, 1635, 1525, 1362, 1175, 1175, 1076, 962, 874, 809, 597, 200, 1
	mp 209-211 °C
1.1301	¹ H NMR (CDCl ₃) δ 2.91 (s, 3H), 3.22 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 6.86 (s, 1H), 7.26-7.33 (m, 9H), 7.37.7.49 (m, 9u)
7001-1	7.64-7.71 (m, 2H), 8.15 (s, 1H), 8.34-8.41 (m, 1H)
	IR (KBr) 3336, 2943, 1736, 1539, 1480, 1356, 1174, 1151, 1077, 881, 799, 523, 507 cm.1
	powder
1.1309	¹ H NMR (CDCl ₃) δ 1.50 (s, 3H), 1.71 (s, 3H), 2.78 (s, 3H), 3.23 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 4.11.4.90 (m, 1H), 4.54
7001-1	4.63 (m, 1H), 5.20-5.28 (m, 1H), 6.87 (s, 1H), 7.25-7.31 (m, 3H), 7.37-7.42 (m, 2H) 7.66.7 79 (m, 9H)
	IR (KBr) 2941, 1702, 1482, 1369, 1203, 1176, 1152, 1080, 964, 873, 797, 595, 220, 1
	mp 133-136 °C
1.1303	¹ H NMR (CDCl ₃) & 1.73 (s, 3H), 1.77 (s, 3H), 3.45 (s, 3H), 3.74-3.78 (m. 5H) 4 96 (s 1H) 5 34-5 49 (m. 1H) 5 04 (c, 1H)
0001-1	6.45 (s, 1H), 6.75-6.81 (m, 1H), 6.89-6.95 (m, 2H), 7.10-7.18 (m, 2H), 7.51-7.56 (m, 2H)
	IR (KBr) 3401, 2935, 1626, 1614, 1527, 1490, 1402, 1267, 1993, 1113, 1071, 1005, 986, 596, 1
	mp 170-171 °C
1.1304	¹ H NMR (CDCl ₃) δ 2.11 (s, 3H), 3.47 (s, 3H), 4.40 (s, 4H), 4.91 (s, 1H), 5.81 (g, 1H), 6.77 (s, 1H), 6.86.7 08 (m, 5H), 7.99
	7.33 (m, 10H), 7.48-7.53 (m, 2H)
	IR (KBr) 3483, 3029, 1612, 1523, 1489, 1453, 1400, 1265, 1215, 834, 749, 698, 494, 596 cm. 1
	1000, 474, 000, 111, 100, 111, 100, 111, 111, 11

Table 259

	mp 166-168 ℃
1.1305	¹ H NMR (CDCl ₃) δ 2.15 (s, 3H), 2.17 (s, 3H), 3.19 (s, 3H), 4.21-4.59 (m, 4H), 6.84-7.05 (m. 3H), 7.14-7 15 (m. 1H), 7.20.
0001-1	7.38 (m, 12H), 7.63-7.69 (m, 2H)
	IR (KBr) 3028, 2938, 1519, 1476, 1454, 1363, 1174, 1151, 969, 873, 801, 700, 525, cm. 1
	mp 210.212 °C
1.1306	¹ H NMR (CDCl ₃) δ 2.11 (s, 3H), 2.90 (s, 3H), 3.44 (s, 3H), 3.52 (s, 3H), 6.82-7.02 (m. 3H) 7.30 (s. 1H) 7.44.7.49 (m. 9H)
0061-1	7.65-7.71 (m, 2H)
	IR (KBr) 3401, 2850, 1632, 1478, 1365, 1177, 1151, 967, 877, 800, 526 cm ⁻¹
	mp 171.173 °C
1,1207	¹ H NMR (CDCl ₃) δ 2.13 (s, 3H), 2.95 (s, 3H), 3.22 (s, 3H), 3.55 (s, 3H), 7.17-7.22 (m. 3H), 7.35-7.41 (m. 2H), 7.64-7.69 (m.
1001-1	2H), 8.17 (s, 1H), 8.37-8.43 (m, 1H)
	IR (KBr) 3431, 3034, 2942, 1741, 1538, 1478, 1364, 1291, 1152, 971, 870, 801, 595 cm.1
	powder
T.1308	¹ H NMR (CDCl ₃) δ 1.47 (s, 3H), 1.70 (s, 3H), 2.11 (s, 3H), 2.67-3.15 (m, 3H), 3.22 (g. 3H), 3.56 (g. 3H) 4 13.4 99 (m. 1H)
	4.54-4.63 (m, 1H), 5.21-5.28 (m, 1H), 7.09-7.42 (m, 6H), 7.63-7.71 (m, 2H)
	IR (CHCl ₃) 2940, 1700, 1519, 1478, 1372, 1175, 1151, 968 cm ⁻¹
	mp 139-141 °C
1.1309	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.78 (s, 3H), 2.13 (s, 3H), 3.48 (s, 3H), 3.77 (d, J = 6.6 Hz, 2H), 4.70-5.20 hr s, 1H), 5.35
	5.42 (m, 1H), 5.77 (s, 1H), 6.77-6.83 (m, 2H), 6.88-6.99 (m, 4H), 7.48-7.54 (m, 2H)
	IR (KBr) 3525, 3377, 2931, 1625, 1526, 1488, 1222, 1164, 1011, 833 cm ⁻¹

1.1310 4.	1H NMR (CDCl3) 8 1.76 (s, 3H), 1.81 (s, 3H), 3.20 (t, J = 8.4 Hz, 2H) 3.21 (t, J = 8.4 Hz, 2H) 4.521 (d, J = 7.9 Hz, 9H)
1.1310 4.	
9	1.1310 4.523 (t, J = 8.4 Hz, 2H), 4.90 (brs, 1H), 5.53 (t, J = 6.8 Hz, 1H), 6.71 (s, 1H), 6.89 (d, J = 8.4 Hz, 2H), 6.98 (d, J = 8.7 Hz,
<u> </u>	2H), 7.41 (d, J = 8.7 Hz, 2H), 7.45 (d, J = 9.0 Hz, 2H)
11	IR (KBr) 3389, 2971, 2911, 1611, 1525, 1394, 1238, 1175, 997, 828 cm ⁻¹
_E	mp 175-177 °C
1 1311 IF	¹ H NMR (CDCl ₃) δ 3.20 (t, J = 8.3 Hz, 4H), 4.53 (t, J = 8.4 Hz, 4H), 4.70 (d, J = 6.3 Hz, 2H), 4.88 (brs, 1H), 6.19 (t, J = 6.2
	Hz, 1H), 6.89 (d, $J = 8.7$ Hz, 2H), 6.96 (d, $J = 9.0$ Hz, 2H), 7.41 (d, $J = 9.0$ Hz, 2H), 7.47 (d, $J = 8.7$ Hz, 2H)
II	IR (KBr) 3409, 3269, 2934, 2901, 1524, 1480, 1395, 1235, 1223, 1003, 881, 817 cm ⁻¹
<u> </u>	mp 186-187 ℃
I. 1319	¹ H NMR (CDCl ₃) δ 2.06 (s, 3H), 2.16 (s, 3H), 4.72 (s, 1H), 4.80 (d, J=6.3 Hz, 2H), 4.83 (s, 1H), 6.25 (t, J=6.3 Hz, 1H), 6.76
	(s, 1H), 6.86-6.92 (m, 2H), 7.03-7.13 (m, 3H), 7.21-7.26 (m, 2H)
II	IR (CHCl ₃) 3689, 3598, 3551, 3024, 3008, 1732, 1614, 1520, 1487, 1260, 1223 cm ⁻¹
	mp 201 °C
I. 1313	¹ H NMR (CDCl ₃) δ 2.08 (s, 3H), 2.17 (s, 3H), 3.88 (s, 3H), 4.80 (d, J =6.3 Hz, 2H), 4.90 (br s, 1H), 4.99 (s, 1H), 6.26 (t, J
	=6.3 Hz, 1H), 6.77 (s, 1H), 6.85-6.92 (m, 4H), 7.01 (d, J =6.9 Hz, 1H), 7.22-7.27 (m, 2H)
II	IR (CHCl ₃) 3688, 3598, 3538, 3024, 3014, 2938, 1731, 1631, 1520, 1488, 1240, 1172 cm ⁻¹
E	mp 132-134 ℃
1 1314 1F	¹ H NMR (CDCl ₃) δ 2.12 (s, 3H), 2.29 (s, 3H), 3.00 (s, 6H), 3.74 (br, 2H), 6.62 (dd, J = 2.4, 8.1 Hz, 1H), 6.77-6.82 (m. 3H)
	7.01-7.05 (m, 2H), 7.12 (s, 1H), 7.26-7.31 (m, 2H)
	IR (KBr) 3600-2800(br), 1610, 1523, 1483, 1443, 1325, 1297 cm ⁻¹

Table 261

	mp 123·125 °C
1.1315	¹ H NMR (CDCl ₃) δ 2.13 (s, 3H), 2.29 (m, 4H), 3.00 (s, 6H), 3.98 (br, 3H), 6.63 (dd, J = 2.4, 8.1 Hz, 1H), 6.77-6.81 (m, 3H)
0101-1	7.02 (s, 1H), 7.09-7.13 (m, 2H), 7.25-7.32 (m, 2H)
	IR (KBr) 3600-2800(br), 1609, 1525, 1488, 1443, 1356, 1232, 1194 cm. ¹
	mp 125-127 C
1.1316	¹ H NMR (CDCl ₃) δ 2.10 (s, 3H), 2.31 (s, 3H), 3.01 (s, 6H), 6.77-6.84 (m, 2H), 7.00 (s, 1H), 7.15 (s, 1H), 7.27-7.33 (m, 3H)
	7.52 (dd, J = 3.0, 12.9 Hz, 1H), 7.09 (d, J = 3.0 Hz, 1H), 7.95 (br s, 1H)
	IR (KBr) 3600-2800(br), 1707, 1611, 1528, 1484, 1350, 1279, 1229, 1196, 1154 cm-1
	mp 94-95 °C
I-1317	¹ H NMR (CDCl ₃) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.26 (s, 6H), 4.63 (d, J = 6.6 Hz, 2H), 5.51 · 5.60 (m. 1H) 6.01 (s. 2H) 6.78
	6.89 (m, 3H), 6.97-7.15 (m, 5H)
1.1218	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.82 (s, 3H), 2.29 (s, 6H), 4.64 (d, J = 6.3 Hz, 2H), 5.53 · 5.60 (m, 1H) 6.99 · 7.21 (m, 1H)
0101.1	5H), 7.33-7.39 (m, 2H), 7.49 (d.d, J = 5.4 & 0.3 Hz, 1H), 7.80 (s. 1H) 7.92 (d. J = 8.1 Hz, 1H)
	mp188-189 °C
	¹ H NMR (CDCl ₃) δ 1.31 (t, J = 7.5 Hz, 3H), 2.26 (s, 3H), 2.29 (s, 3H), 2.68 (q, J = 7.5 Hz, 2H) 5 17 (s, 2H) 5 70 (hrs. 1H)
I-1319	6.83 (d, J = 6.8 Hz, 1H), 6.98-7.00 (m, 2H), 7.13 (d, J = 9.0 Hz, 2H), 7.26-7.30 (m, 2H), 7.38-7.48 (m, 5H), 7.78 (hz, 1H), 9.6
	(d, J = 8.7 Hz, 1H)
	IR(KBr) 3444, 3269, 1710, 1533, 1487, 1269, 1244, 1199, 1174. 744, 697 cm.1
	mp157-159 C
1.1390	¹ H NMR (CDCl ₃) δ 1.30 (t, J = 7.6 Hz, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 2.68 (q, J = 7.2 Hz, 2H) 3.91 (s. 3H) 5.91 (s. 9H)
	6.81-6.97 (m, 3H), 7.14 (d, J = 7.6 Hz, 2H), 7.25-7.51 (m, 7H), 7.79 (brs. 1H). 7.86 (d. J = 8.8 Hz, 1H)
	IR(KBr) 3434, 3260, 1707, 1519, 1501, 1488, 1260, 1241, 1213, 1172, 744, 697, cm.1
	, (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

	mp186-187 C
1.1391	¹ H NMR (CDCl ₃) δ 1.30 (t, J = 8.4 Hz, 3H), 2.26 (s, 3H), 2.27 (s, 3H), 2.68 (a. J = 7.5 Hz, 2H), 5.20 (s, 2H), 7.04.7 14 (m)
1.1021	6H), 7.26-7.50 (m, 6H), 7.79 (brs, 1H), 7.86 (d, J = 8.7 Hz, 1H)
	IR(KBr) 3436, 3266, 1709, 1536, 1521, 1487, 1267, 1199, 1176, 744, 697 cm. ¹
	mp136-137 °C
1.1399	¹ H NMR (CDCl ₃) δ 1.32 (t, J = 7.5 Hz, 3H), 2.28 (s, 3H), 2.30 (s, 3H), 2.70 (a. J = 7.5 Hz, 2H), 3.13 (s, 3H), 5.10 (c, 9H)
7701-1	7.12-7.15 (m, 3H), 7.26-7.29 (m, 3H), 7.37-7.50 (m, 5H), 7.80 (brs, 1H), 7.87 (d. J = 9.0 Hz, 1H)
	IR(KBr) 3435, 1725, 1536, 1486, 1363, 1292, 1266, 1179, 1163, 1108, 7970, 895, 811, 636,
	mp150.151 °C
1-1393	¹ H NMR (CDCl ₃) δ 2.18 (s, 3H), 2.27 (s, 3H), 5.20 (s, 2H), 7.04-7.14 (m. 6H), 7.26-7.50 (m. 6H), 7.60 (d. 1 = 19.0 Hz, 1H)
0701.1	7.94 (brs, 1H)
	IR(KBr) 3421, 3302, 1712, 1523, 1490, 1422, 1299, 1274, 1205, 1176, 1132, 743, 697, cm. 1
	mp83-84 C
	¹ H NMR (CDCl ₃) & 1.30 (t, J = 7.6 Hz, 3H), 1.77 (s, 3H), 1.78 (s, 3H), 1.81 (s, 6H) 2.31 (s, 3H) 2.34 (s, 3H) 2.56 (c, 1 - 7.6)
I-1324	Hz, 2H), 3.80 (d, $J = 6.4$ Hz, 2H), 3.90 (s, $3H$), 4.65 (d, $J = 6.2$ Hz, 2H), 5.44 (d, $J = 6.2$ Hz, 2H)
	(t, J = 5.4 Hz, 1H), 6.73 (d, J = 8.0 Hz, 1H), 6.92-6.94 (m, 3H), 7.12-7.20 (m, 4H)
	IR(KBr) 3428, 3374, 2964, 1607, 1519, 1494, 1458, 1311, 1256, 1239, 1139, 1036, 1002, 855, 820, 200.
	mp113-114 °C
	¹ H NMR (CDCl ₃) δ 1.30 (t, J = 7.4 Hz, 3H), 1.76 (s, 3H), 1.78 (s, 3H), 1.80 (s, 3H), 1.84 (s, 3H) 2.30 (s, 3H) 9.39 (s, 3H)
1.1325	2.55 (q, J = 7.6 Hz, 2H), 3.79 (d, J = 6.6 Hz, 2H), 4.63 (d, J = 6.6 Hz, 2H), 5.43 (t. J = 5.6 Hz, 1H) 5.55 (t. J = 6.6 Hz, 1H)
	5.73 (brs, 1H), 6.72 (d, J = 8.0 Hz, 1H), 6.83-6.98 (m, 3H), 7.11-7.19 (m, 4H)
	IR(KBr) 3413, 3298, 2965, 2924, 1518, 1494, 1435, 1242, 1127, 1013, 883 cm. 1

	mp81-82 ℃
	1H NMR (CDCl ₃) & 1.29 (t, J = 7.4 Hz, 3H), 1.74 (s, 3H), 1.77 (s, 3H), 1.78 (s. 3H), 1.81 (s. 3H), 2.97 (s. 3H), 9.31 (s. 3H)
I-1326	2.54 (q, $J = 7.2$ Hz, $2H$), 3.79 (d, $J = 7.2$ Hz, $2H$), 4.63 (d, $J = 6.6$ Hz, $2H$), 5.42 (t, $J = 6.4$ Hz, $1H$) 5.55 (t, $J = 6.6$ Hz, $1U$)
	6.71 (d, J = 8.0 Hz, 1H), 7.04.7.19 (m, 7H)
	IR(KBr) 3413, 2969, 2912, 2856, 1613, 1520, 1492, 1295, 1261, 1127, 1004, 881, 813, 5m.1
	mp94.95 C
1,1397	¹ H NMR (CDCl ₃) δ 1.74 (s, 3H), 1.77 (s, 6H), 1.81 (s, 3H), 2.21 (s, 3H), 2.26 (s. 3H), 3.72 (d. $J = 6.9$ Hz, 9H), 4.63 (d. $J = 6.9$
1701-1	Hz, 2H), 5.35 (t, $J = 6.9$ Hz, 1H), 5.55 (t, $J = 6.9$ Hz, 1H), 6.37-6.48 (m. 2H), 7.01-7 13 (m. 6H)
	IR(KBr) 3423, 2967, 2918, 1627, 1525, 1488, 1296, 1267, 1129, 981, 837, 805, 500-1
	mp 178-180°C (decomp.)
1,1398	¹ H NMR (DMSO-d ₆) δ 3.30 (s, 3H), 3.64 (s, 3H), 4.45 (s, 2H), 5.65 (s, 2H). 6.39 (s, 1H), 6.65 (dd, $I = 8.4.9.1$ Hz, $I = 7.4$
0701-1	(d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.99 (d, J = 8.4 Hz, 1H), 7.43 (d, J = 8.7 Hz, 9H), 9.96 (e, 1H)
	IR (Nujol) 3487, 3382, 1696, 1670, 1591, 1523, 1491, 1458, 1943, 1909, 1114, 1077, 1013, 627, 611,
	mp 205-210°C (decomp.)
1.1390	1H NMR (DMSO-d6) & 3.34 (s, 3H), 3.44 (s, 3H), 3.67 (s, 3H), 4.93 (s, 2H), 6.43 (s, 1H), 6.76 (dd, 1 = 8 d, 2.1 Hz, 1H), 6.95
777.	(d, J = 2.1 Hz, 1H), 6.86 (d, J = 8.7 Hz, 2H), 7.04 (d, J = 8.4 Hz, 1H), 7.46 (d, J = 8.7 Hz, 9H)
	IR (Nujol) 3388, 3333, 3270, 1671, 1614, 1579, 1556, 1523, 1443, 1293, 1179, 1191, 1022, 029, 013, 11
	mp 185-187°C
	¹ H NMR (CDCl ₃) 6 1.79 (t, J = 2.6 Hz, 3H), 2.69 (m, 2H), 2.75 (s, 3H), 3.21 (s. 3H) 3.29 (s. 3H) 3.56 (s. 3H) 3.77 (s. 3H)
I-1330	4.17 (t, $J = 6.6$ Hz, 2H), 6.84 (s, 1H), 7.08 (d, $J = 9.0$ Hz, 1H), 7.36 (dd. $J = 9.0$ 2.1 Hz, 1H), 7.38 (d. $J = 9.0$ 2.1 Hz, 1H), $J = 9.0$ (d. $J = 9.0$ 2.1 Hz, 1H), $J = 9.0$ (d. $J = 9.0$ 4.1 Hz, 1H), $J = 9.0$ 4.1 Hz, 1Hz, $J = 9.0$ 4.1 Hz, 1Hz, $J = 9.0$ 4.1 Hz, $J = 9.0$
	J = 2.1 Hz, 1H), 7.68 (d, $J = 8.7 Hz$, 2H)
	IR (Nujol) 1604, 1520, 1480, 1175, 1151, 1081, 1012, 971, 948, 878, 840, 807 cm.1

1.1331	foam ¹ H NMR (CDCl ₃)
	foam
I-1332	¹ H NMR (CDCl ₃) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.16 (m, 2H), 4.76 (m, 2H), 5.89~6.02 (m, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.96 (m, 2H), 7.09 (brs, 1H), 7.53 (d, J = 8.7 Hz, 2H)
	foam
I-1333	
	Hz, 2H),6.92 (d, J = 8.4 Hz, 1H), 6.96 (dd, J = 8.4, 2.1 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (Nujol) 3434, 1612, 1588, 1523, 1489, 1285, 1248, 1224, 1174, 1112, 1070, 1011 cm ⁻¹
1.1334	¹ H NMR (CDCl ₃) δ 1.95 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.11 (s, 2H), 4.68 (d, J=6.9 Hz, 2H), 5.75 (d, J=6.9 Hz, 1H),
£001-1	6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.96 (s, 2H), 7.08 (s, 1H), 7.53 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3390, 1612, 1585, 1523, 1491, 1225, 1072, 1003, 822 cm ⁻¹
	m.p 179-180 ℃
	¹ H NMR (CDCl ₃) δ 1.88 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.07 (s, 2H), 4.69 (d, J =6.6 Hz, 2H), 5.89 (d, J = 6.6 Hz, 1H),
I-1335	6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.92 (d, J = 8.4 Hz, 1H), 6.96 (dd, J = 1.8, 8.4 Hz, 1H), 7.07 (d, J = 1.8 Hz, 1H), 7.53 (d,
	J = 8.7 Hz, 2H
	IR (KBr) 3392, 1609, 1584, 1523, 1492, 1226, 1116, 1072, 1002, 813, 782 cm ⁻¹

1-136	
	1.3, 3.4 112, 111), 0.53 (a, J = 8.7 Hz, 2H), 6.86 (d, J = 1.8 Hz, 1H), 6.92 (d, J = 8.4 Hz, 1H), 7.45 (d, J = 8.7 Hz, 2H) [R (KBr) 3399, 2934, 1612, 1588, 1523, 1489, 1254, 1114, 1071, 1012, 939, 816 cm ⁻¹
2	foam 1H NMR (CDCl3)
1-1337	
	foam
	¹ H NMR (CD3OD) δ 3.38 (s, 3H), 3.67 (s, 3H), 4.25 (d, J = 21.0 Hz, 2H), 4.84 (d. J = 7.5 Hz, 2H), 5.58 (dt. J = 19.5.7.5 Hz
I-1338	1H), 6.43 (s, 1H), 6.79 (dd, J = 2.1, 8.4 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.86 (d, J = 2.1 Hz, 1H), 6.96 (d, J = 8.1 Hz, 1H)
	7.45 (d, J = 8.7 Hz, 2H)
	IR (KBr) 3409, 1701, 1612, 1591, 1523, 1489, 1404, 1246, 1113, 1071, 1010, 939, 816 cm. 1
	foam
	¹ H NMR (CDCl ₃) δ 3.44 (s, 3H), 3.74 (s, 3H), 4.21 (d, $J = 21.3$ Hz, 2H), 4.66 (dd, $J = 1.8$ 7.5 Hz, 9H) 5.70 (dt. $J = 1.6$ 5.7 g
I-1339	Hz, 1H), 6.45 (s, 1H), 6.95 (d, J = 8.7 Hz, 2H), 6.96 (d, J = 8.4 Hz, 1H), 6.98 (dd. J = 1.5, 8.4 Hz, 1H), 7.09 (d. J = 1.5 Hz, 1H)
	7.51 (d, $J = 8.7 \text{ Hz}$, 2H)
	IR (KBr) 3411, 1698, 1611, 1588, 1522, 1488, 1223, 1112, 1070, 1011, 939, 825 cm.1
	mp 171.172 °C
I-1340	¹ H NMR (CDCl ₃) δ 1.50 (s, 3H), 1.67 (s, 3H), 1.96 (s, 3H), 3.45 (s, 3H), 3.77 (s, 3H), 4.13-4.49 (m, 2H), 5.93-5.30 (m, 1H)
) 	5.59 (s, 1H), 6.13 (s, 1H), 6.47 (s, 1H), 6.92-6.98 (m, 2H), 7.18-7.35 (m, 3H), 7.50-7.57 (m, 2H)
·	IR (KBr) 3390, 3140, 2935, 1640, 1523, 1401, 1240, 1119, 1070, 835, 820 cm ⁻¹

	I
I-1341	71 NIMIR (CDC13+CD3OD) 0 1.46 (s, 3H), 1.67 (s, 3H), 1.95 (s, 3H), 2.10 (s, 3H), 3.46 (s, 3H), 4.16-4.47 (m, 2H), 5.21-5.28
-	(m, 111), 6.79 (s, 1H), 6.88-6.95 (m, 2H), 7.11-7.27 (m, 3H), 7.45-7.52 (m, 2H)
	mp 103-105 °C.
1.1349	"H NMR (CDCl3) & 1.15 (d, J = 6.8 Hz, 6H), 2.26 (s. 3H) 3.08 (sont 1 - 6.8 Hz, 11), 4.64, 115, 2.26
7501.1	8.7 Hz, 2H), 7.04-7.07 (m, 3H), 7.12-7.18 (m, 1H), 7.18 (s, 1H), 7.20 (d, 1 = 8.7 Hz, 2H), 2.00 (a, 2H), 6.88 (d, J =
	IR (KBr) 3429, 1522, 1490, 1262, 1227, 1128, 1011, 833 cm. 1
	mp 115-117 °C
	¹ H NMR (CDCl ₃) δ 1.15 (d, J = 6.6 Hz, 6H), 1.77 (s. 3H), 1.82 (s. 3H), 9.97 (s. 9H), 9.08 (2.11), 1.20 (s. 11)
I-1343	6.9 Hz, 2H), 4.86 (s, 1H), 5.56 (t, J = 6.9 Hz, 1H), 6.89 (d, J = 8 6 Hz, 2H), 7.03 (t, J = 0.4 Hz, 1H), 6.89 (d, J = 8 6 Hz, 2H), 7.03 (t, J = 0.4 Hz, 1H), 7.55 (t, J = 0.4 Hz, 1H), 6.89 (d, J = 8 6 Hz, 2H), 7.03 (t, J = 0.4 Hz, 1H), 7.55 (t, J = 0.4 Hz, 1H), 6.89 (d, J = 8 6 Hz, 2H), 7.03 (t, J = 0.4 Hz, 1H), 7.55 (t, J = 0.4 Hz, 1H), 6.89 (d, J = 8 6 Hz, 2H), 7.03 (t, J = 0.4 Hz, 1H), 7.55 (t, J = 0.4
	1H), 7.21 (d, J = 8.6 Hz, 2H)
	IR (KBr) 3524, 1611, 1523, 1489, 1260, 1228, 1200, 1138, 826, 211, 1
	¹ H NMR (CDCl ₃) δ 1.15 (d, J = 6.9 Hz, 6H), 2.26 (s, 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.9 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.9 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.9 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.9 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.9 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.9 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.9 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.8 Hz, 6H), 2.26 (s. 3H), 3.08 (sept. J = 6.8 Hz, 1H), 4.76 (s. J = 6.8 Hz, 6H),
I-1344	1.1344 $ 6.25 \text{ (t, J} = 6.3 \text{ Hz, 1H), 6.89 (d, J} = 8.7 \text{ Hz, 2H), 7.01 (t. J} = 8.4 Hz, 1H), 7.07 7 19 (m. giv. giv. giv. giv. giv. giv. giv. giv$
	7.18 (s, 1H), 7.20 (d, $J = 8.7 \text{Hz}$, 2H)
	IR (KBr) 3425, 1610, 1523, 1488, 1300, 1263, 1300, 1263, 127, 1134, 1038, 806,
٠	mp 109-110 °C
I-1345	¹ H NMR (CDCl ₃) δ 1.34 (d, J = 6.9 Hz, 3H), 2.24 (s, 3H), 4.00 (g, J = 6.9 Hz, 9H) 4.77 4.70 (z, z, z
)	1H), $6.86-6.90$ (m, 2H), $6.98-7.19$ (m, 4H), $7.47-7.50$ (m, 2H)
	IR (CHCl ₃) 3596, 2927, 1612, 1523, 1493, 1476, 1388, 1960, 1173, 1187, 127, 127, 127, 127, 127, 127, 127, 12
	1173, 1127, 1049, 885, 834 cm.

Table 267

	mp 114.116 C
1.1346	¹ H NMR (CDCl ₃) δ 1.33 (d, J = 6.9 Hz, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.24 (s. 3H) 4.00 (g. J = 6.9 Hz, 9H) 4.63 (m. 9Hz)
0501-1	4.73 (br, 1H), 5.56 (m, 1H), 6.81 (s, 1H), 6.86-6.90 (m, 2H), 7.00-7.19 (m, 4H), 7.47-4.51 (m, 2H)
	IR (CHCl ₃) 3596, 2929, 2877, 1610, 1523, 1493, 1476, 1386, 1329, 1316, 1307, 1361, 1372, 1362,
	mp 144-146 °C
1.1347	1H NMR (CDCl ₃) & 3.20 (s, 3H), 3.40 (s, 3H), 3.75 (s, 3H), 4.74 (s, 2H), 5.19 (s, 2H), 6.44 (s, 1H), 7.05, 7.69 (m, 1913)
1501-1	IR (KBr) 3437, 1614, 1579, 1520, 1488, 1465, 1453, 1436, 1414, 1393, 1364, 1346, 1930, 1970, 1995, 1106, 1177, 1175
	mp 156-159 ℃
1 1940	¹ H NMR (CDCl ₃) δ 2.48 (s, 3H), 3.05 (s, 3H), 3.20 (s, 3H), 3.78 (s, 3H) 4 83 (s, 9H) 5.91 (s, 9H) 6.94 (s, 1H) 7.05 2.2 (s, 2H)
0501.1	
	IR (KBr) 3430, 2940, 1607, 1522, 1481, 1452, 1419, 1389, 1365, 1294, 1973, 1930, 1976, 1151, 1166, 1666, 1677, 1878, 187
	mp 155-156 C
1.1349	¹ H NMR (CDCl ₃) δ 1.15 (t, J = 6.9 Hz, 3H), 3.60 (q, J = 6.9 Hz, 2H), 3.75 (s. 3H), 3.90 (s. 3H), 4.93 (hs. 1H), 5.90 (s. 9H)
	5.98 (s, 1H), 6.46 (s, 1H), 6.90-7.05 (m, 5H), 7.26-7.56 (m, 7H)
	IR (KBr) 3409, 2938, 1613, 1522, 1438, 1416, 1396, 1382, 1360, 1268, 1939, 1911, 1169, 1131, 1113, 1922, 1933, 1941, 144
	mp 58-60 °C
1.1350	1H NMR (DMSO-d6) 6 1.71 (s, 6H), 2.21 (s, 3H), 2.22 (s, 3H), 3.71-3.75 (m, 2H), 5.11 (hr s, 9H), 5.95 5.90 (m, 1H) 5.50
	5.53 (m, 1H), 6.60-6.63 (m, 2H), 6.66-6.73 (m, 1H), 6.95-7.05 (m, 6H)
	IR (KBr) 3600-2800(br), 1623, 1527, 1492, 1454, 1498, 1331, 1969, 1957, 1184, 1116,
	1120, 1201,

Table 268

	mp 140-142 °C (dec.)
1,1951	¹ H NMR (CDCl ₃) δ 2.33 (s, 3H), 4.93 (s, 1H), 5.19 (s, 2H), 6.89 (d, $J = 8.7$ Hz. 2H) 7.06 (t, $J = 8.6$ Hz, 1H) 7.93 (d. $J = 9.7$
1001-1	Hz, 2H), 7.24-7.50 (m, 10H)
	IR (KBr) 3400, 1609, 1529, 1490, 1269, 1243, 1005, 807, 745, cm. 1
	mp 114-116 °C
1.1259	¹ H NMR (CDCl ₃) & 1.77 (s, 3H), 1.81 (s, 3H), 2.33 (s, 3H), 4.63 (d, J = 6.9 Hz. 2H) 4 89 (s. 1H) 5 54 (t. 1 - 6.0 Hz. 1H)
7001-1	6.89 (d, J = 8.6 Hz, 2H), $7.04 (t, J = 8.6 Hz, 1H)$, $7.23 (d, J = 8.6 Hz, 2H)$, $7.25.743 (m, 5H)$
	IR (KBr) 3368, 1609, 1526, 1490, 1271, 1241, 1131, 991, 897, 811, cm. 1
-	mp 78-79 °C
I-1353	I.1353 1H NMR (CDCI ₃) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.24 (s, 3H), 2.27 (s, 3H), 4.64 (d. J = 6.6 Hz, 2H), 5.51 . 5.59 (m. 1H) c.09
	7.20 (m, 7H), 7.28 - 7.36 (m, 2H)

•								-,								·	٠				
			A	-CH,CH=CMs.	-(CH ₉) ₂ CH=CM ₉	-CH ₂ CH=CC ₁	-CH ₂ C=CM ₂	- CH ₂ C ₂ H ₁ -4-M ₂	-/CHOLOGUE		- CH2CH-CCI2	−CH2C≡CMe	-CH2C6H4-4-Me	- (VI)-U)-	OII OII OII	-CH2CH=CCl2	−CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-(CH2)2CH = CMe2	- CH ₂ CH = CCl ₃	-CH2C≡CMe
			×	0	0) c	c						0	0)	0	0	0	0
,	•.*		R13	OMs	OMs	OMa	»MO	OMe	COOH	1000	COOL	HOOS	H000	CHOH	Ou Ou	CH2OH	CH2UH	CH2OH	F	댐	F
		٠	R12	H	H	Н	Ξ	i i	Ή	: 2	:	F	Н	Ή	: :	= =	= =	=	H	Н	Н
	_		RII	H	Ħ	H	Ξ	=	=	=	:	디	Н	Н	Ħ	= =	- E	Ľ	H	H	Н
	€ .		R 10	H	三	H	H	E	E	Ξ	: :		Н	Н	п	7	11	5	H	Н	Н
Έ,	11 71	R ¹³	R 9	Н0	НО	Н0	НО	HO	HO	HO	1 5	5	НО	НО	HO	HO			OH	НО	НО
R ⁷ R ¹⁰		- L	R 8	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMG	OIME	OMe	OMe	OMe	OMe	OM O	CIMIC	OMe	OMe	OMe
, R ³ R ⁶			R 7	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe	OMo	CIMIC	OMe	OMe	OMe	OMe	OMe	31116	OMe	OMe	OMe
		ļ	R 6	H	Н	H	H	H	H.	Н	Ħ		H	Н	Н	H	Ξ	:	F	H	H
H ²	- H		R 5	田	田	H	Н	Н	H	Н	Н		H	Ή	H	H	H	=	=	H	H
			2	프	田	H	H	田	田	Н	Н	:	되	H	Н	Н	H	=	F	H	H
			띰	田	F	田	田	田	H	Н	H	;	F	H	Н	Н	H	=	-	Ħ	H
			R ₂	王	甲	F	田	H	H	H	H	:	듸	田	Н	H	H	7			H
			R -	НО	НО	HO	ОН	Н0	H0	H0	НО	110	OH	0H	НО.	Н0	Н0	НО		ОН	HO
		:	No.	I-1354	I-1355	1.1356	I-1357	I.1358	I-1359	I-1360	I-1361	1369	7001.1	I.1363	I-1364	1.1365	I-1366	1.1367		1-1368	1-1369

Table 270

· 			_																						
	-CH2C6H4-4-Me	-CH2CH=CCl2	−CH2C≡CMe	-CH2CH=CMe2	-/(PH2)-CU-	OII OII GG	- CH2CH = CCI2	-CH ₂ C=CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	$-(CH_2)_2CH=CMe_2$	-CH ₂ CH=CCl ₃	WJ=J'HJ-	amo - 07110	-CH2C6H4-4-Me	-CH2CH=CMe2	$-(CH_2)_2CH = CM_6$		Onzon – Corg	−CH2C≡CMe	-CH2C6H4-4-Me	-CH,CH=CCI,	-UH.C=CM	OII OII OII	$-CH_2CH = CMe_2$
			이	0	C						0	0	C				0	<			0	0	0		
. [- I		HO	OMs) Mo	OMS	OMS	OMIS	OMIS	COOH	C00H	СООН	СООН	noon	COOR	CH2OH	CH ₂ OH	СН.ОН	011 011	CH2OH	CH ₂ OH	Ę	댠	, 0	
12	= =	<u>: </u>	刵	H	H	=			= =		Η	H	Ξ	ä	=	F	H	Н	=	c	Н	H	Ħ	Ħ	=
"	= =		I)	H	Ħ	ı ı	= =	= =	= =		H	H	Н	Ħ	:	=	Н	H	=	=	H	H	Н	Ħ	7
ļ #	=	:		Ħ	H	Ξ	1 1	1 1	= =	5	田	Н	Н	п		=	Н	H	7		F	H	H	Ή	
HO	COOH	1000	HOON	C00H	Н000	COOH	COOH	HOOD	COOL	HOOD	C00H	С00Н	H000	COOH	11000	TOOO	C00H	H000	НООЛ	1000	HOOS	СООН	1000	СН,ОН	
OMe			OIMIE	OMe	OMe	OMe	OMe	OMe	OMe	Civic	OMe	ОМе	OMe	OMe	OMo	CINTE	OMe	OMe	OMe		OIMe	OMe	ОМе	OMe	
OMe	OMe	O MG	OIME	OMe	OMe	OMe	OMe	OMe	OMe	21110	OMe	OMe	ОМе	OMe	OMo	21110	ОМе	OMe	OMe	2,0	CIME	OMe	OMe	OMe	
H	H	=		티	Н	H	田	H	Ξ	: :	Ę	Ħ	H	Н	I		H	H	Н	5	=	H	H	H	
H	H	7		E	H	H	H	H	Ħ	:	H	H	H	Н	H		H	Н	H	17	=	H	H	Н	
H	H	Ξ		H	H	H	Н	≖	H	=	=	H	H	Н	Н	;	디	H	Н	I	=	H	H	Н	
H	Н	П		F	H	Н	Н	Н	Н	П	5	H	Н	Н	Н	:	F	H	H	п		田	H	Н	
H	H	Ξ	: :		田	H	H	H	Н	=	=	H	Н	H	H	=	=	Н	Н	н		E	H	H	
HO	НО	НО	110	OH	НО	НО	НО	Н0	Н0	НО		НО	ОН	ЮН	НО	пO	On	OH	НО	НО		ОН	ОН	ОН	
1.1370	I-1371	I-1372	I 1979	1-10/3	1.1374	I-1375	1.1376	I-1377	I.1378	I-1379		1-1380	I-1381	I-1382	I-1383	1.1384	1001-1	1.1385	I-1386	I.1387	1000	1-1388	I.1389	I-1390	

Table 271

		_	$\overline{}$		_				_	<u> </u>	T		•			· •					To:
WO-HO (HJ)-	- (CH2)2CH - CMe2	- CH ₂ C=CM ₂	-Cu.C.u4-M	CIIZC6n4 – 4 – Me	CHICH = CMe2	-(CH2)2CH=CMe2	- CH2CH CCI2	- CH°C'H'-1-Mo	-CH ₂ CH=CM ₂	-(CH ₂) ₂ CH=CM ₂	-CH,CH=CCI;	NO = O IIO -	Onzo-cine	-CH2C6H4-4-Me	-CH2CH=CMe2	-CH2CH=CCl2	CH2C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH = CMe2	-CH2CH=CCI,
0									C	0)	0	0	0	0
но	5 5	HO	HO	OMS	OMS	OMS	OMO	OMs	C00H	СООН	COOH	COOH	COOL	COOR	CH2UH	CH2OH	CH2OH	CH2OH	F	R	ᅜ
<u> </u>	I	=	Ξ	1 1	= =	= =	i i	H	H	H	H	П	1 1	= =	= =	C :	= :	F	Ħ	Н	Н
H	1 =	E	=	=	= =	=	= =	= =	H	Ħ	H	I	=				= =	티	Ξ	Н	H
Ξ	I	E	=	=		= =	I	E	H	H	H	H	н	1 1	7	; ;	F F	E	H	Н	Н
CH ₂ OH	СН₂ОН	CH ₂ OH	СН°ОН	CH ₂ OH	CH3OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CHOH	CHOH	CHOH	CHOOL	CHO	CH2OH	CH2OH	CH ₂ OH	CH_2OH
OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	O.M.C	Olvie	OMe	OMe	OMe
OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	S S S	CIMIC	OMe	OMe	OMe
H	Н	Н	Н	Н	H	Н	H	Н	Н	H	Н	Н	Н	Ħ	Ξ	H	=	: =	=	H	H
H	Н	Н	Н	Н	H	H	Н	Н	H	Н	Н	Н	H	Н	H	H	Ξ	: :	=	H	H
H	H	Н	Η	Н	H	H	H	Н	H	H	H	H	Н	H	H	H	H	12	=	田	田
H	H	王	Н	Н	H	H	Н	Н	Н	Н	Н	Н	Н	H	Н	H	Н	1	1	E	H
Н	H	王	H	H	Н	Н	Н	H	H	田	Ħ	H	H	H	H	H	H	П		H	H
Н0	НО	НО	НО	НО	Н0	Н0	Н0	НО	НО	НО	ОН	ОН	НО	НО	Н0	Н0	HO	OH		HO	HO
I-1391	I-1392	1.1393	I-1394	I-1395	1.1396	I-1397	I-1398	I-1399	I.1400	I-1401	I-1402	I-1403	1.1404	I-1405	1.1406	1.1407	1-1408	I-1409	9	1.1410	1.1411

Table 272

Γ	T	<u>e</u>		Γ	Τ		23	T	<u> </u>	٥	1	$\overline{\perp}$	2			Т	اه	\neg	- 2		T	7	اره		_
	-CH ₂ C≡CMe	-CH2C6H4-4-Me	-CH2CH=CCl2	– CH ₂ C≡CM ₂	-CH-CH-CM	Chich - Cimer	-(CH2)2CH=CMe2	-CH2CH=CCl2	-CH2C≡CMe	-CH2C6H4-4-MA	-CH ₂ CH=CM ₂	ZAMO IIOZIIO	-(CH2)2CH=CMe2	-CH2CH=CCl2	-CH,C≡CMe	2110 110	-CH2C6H4-4-Me	-CH ₂ CH=CMe ₂	-(CH2)2CH=CMe2	-CH2CH=CCI3	-CH.C=CM.	amo-orno	-CH2C6H4-4-Me	-CH2CH=CMe2	10 - 110 (nu) -
		0	0	0	0				0	0	c			0	0	0		0	0	0	c)		0	C
\$	I.	[-]	НО	НО	OMe	OM	OIMIS	OMs	OMs	OMs	СООН	COOH	1000	C00H	C00H	поол	20011	CH ₂ OH	CH ₂ OH	CH ₂ OH	СНэОН	יייטטעט	, Torin	¥4	ĹŦ
Ŀ	티:	듸	H	H	Ή	1	11	F	E	Н	H	π		H	Н	Н	;	r	田	Н	H	77	: :	=	Ξ
	= =	디	田	Н	Н	=	 		픠	H	H	π			H	Ħ	: :	н	H	Н	Н	Ξ	: =		Ξ
=			픠	Ή	Н	Ξ		= :	티	H	H	Н		F	H	Н	: :	G	H	Н	Н	Ή		= ;	Ξ
CU-OU	CUCOL	Chion	Me	Me	Me	Ме	M.	ime	Me	Me	Me	Me		Me	Me	Me	Me	alvi	Me	Me	Me	Me	Mo	, inte	Me
OMe	+	Olwie	OMe	OMe	ОМе	OMe	OMe		OIMIe	OMe	OMe	OMe	7.0	Owle	OMe	OMe	OMe		OIMIe	OMe	OMe	ОМе	OMe		OMe
OMe	OM O	al contract	OMe	OMe	OMe	OMe	OMe) A	CIMIE	OMe	OMe	OMe	OMS	OIME	OMe	OMe	OMe	3 6	CIME	OMe	OMe	OMe	OMe	7	OIMe
Ξ	н	1 -	디	Ħ	Н	H	H	7		H	H	Н	Ħ	:		Н	Н	12	;	I	田	Н	H	\vdash	ᅥ
Ξ	I	=		Ŧ	H	Н	H	Н		Ŧ	H	Н	Ή	;	I	Ή	Н	I	: :	F	E	Н	Н	12	=
H	H		<u>-</u>	Ħ	H	Н	H	ıπ	; ;	F	H	H	Ή	:	F	H	H	Ή	: :	F	甲	H	H	П	-
Ξ	E	=			H	H	Н	Ή		Ŧ	H	Н	Ή	=		田	H	π	=		H	H	Н	Ħ	1
H	H	7	1:	1	田	H	H	Н	:		F	H	H	=	-	E	Н	Н	7	= :	F	H	Н	Ή	
H0	Н0	НО	110	OH	ОН	ОН	ЮН	НО	IIO	O	OH	ОН	НО	НО		ОН	0H	НО	ОН	110	HO	ОН	ОН	НО	
I-1412	I-1413	1.1414	1 1415	01410	1.1416	1.1417	I-1418	I-1419	1.1490	10,11	1261-1	1.1422	I-1423	1.1494		1.1425	I-1426	I-1427	1.1428	1 1 100	6761-1	1.1430	I-1431	I-1432	

Table 273

ſ			_				1		-		· · · ·		Т				· -									
	-CH2CH=CCl2	-CH₂C≡CMe	-04.0.U	CII2C6II4 - 4 - IVIE	-CH2CH=CCl2	−CH ₂ C≡CMe	-CH.C.H1-M.	am r brigging	CH2/2CH - CIMe2	-CH2CH = CCl2	-CH ₂ C≡CMe	-CH2C6H4-4-Me	-CH2CH=CM63	7017 710 (110)	CH2/2CH = CMe2	-CH2CH=CCl2	-CH ₂ C=CM ₂	awo orus	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH ₂) ₂ CH=CM ₆ ,	ייטריחט-חט-	Onzon – CCI2	-CH2C≡CMe	-CH2C6H4-4-Me	$-(CH_2)_2CH = CMe_2$
	0	0	c			0	U					0	0	(0	С			0	0	c	5 (0	0
	Œ	댼	ſΞ		НО	НО	НО	OMe	OM O	OMIS	OIMB	OMs	H000	поол	11000	C00H	COOH	11000	COUH	CH ₂ OH	CH ₂ OH	CH,OH	011.011	CH2OH	CH ₂ OH	뚀
	田	H	#			픠	Н	I		= =	5	H	Н	н	:	E	Ħ	F	c	H	Н	н	:	۳	田	Н
	티	H	H		팃	田	H	H				E	H	Д		三	Н	2	ş ;	F	田	H	F	-	H	H
	픠	田	H	=		픠	H	H	=			듸	Н	н	Ŀ	듸	H	7	:	F	H	H	Ü	=	ij	H
	Me	Me	Me			H	Н	H	Ħ	1	:	티	Н	H	=	듸	H	Н	= =		H	H	ı	:	Ξ	H
	OMe	OMe	OMe	OMo	-	ОМе	ОМе	ОМе	OMe	OMe	2	OMe	OMe	OMe	36	OIMIE	OMe	OMe	346	Oivie	OMe	ОМе	OMe	1 2	OIMIE	OMe
	OMe	OMe	OMe	OMe		OMe	ОМе	ОМе	OMe	OMe	¥ 6	OIMIe	OMe	ОМе	OM	OMe	OMe	OMe	N O	OIMIC OIMIC	OMe	OMe	OMe	2 2	OIME	OMe
	=	티	Ξ	н	=	Ę	H	H	Н	H	77	=	H	Н	Д	=	H	H	I	; ;	F	H	H	12		H
	<u>تا</u> :	E	三	工	=	5	H	Н	Н	H	н	11	H	Н	Ħ		H	н	Ξ	=	F	H	H	12	: :	
=	<u>:</u>	I	픠	H	=		H	H	Н	Н	п		H	Н	Ή		H	H	Н	=	=	H	Н	I	:	ΞĮ.
1	:	=	듸	H	F	1	피	H	Н	Н	Н		H	H	I		F	Н	Н	7	5	H	H	Ή	: :	I
		디	픠	H	=	:	티	H	H	Н	H			田	H	:	티	H	H	1		H	H	Н	=	
HO		no	ОН	НО	НО		HO.	НО	ЮН	НО	НО	1	HO	OH	ЮН	110	OH	ОН	НО	ОН		НО	ОН	НО	ПО	011
I-1433	1.1434	1 1 101	1-1435	I-1436	I-1437	1 1490	1.1438	I.1439	I-1440	1.1441	I-1442	1 1440	1-1443	1.1444	I-1445	1.1446	0447	I-1447	I-1448	I-1449	27.1	1-1420	I-1451	I-1452	1.1453	COLT

Table 274

																<u>.</u>				•
-CH,CH=CCI,	— CH°C≡CMe	-CH ₂ C ₆ H ₄ -4-M ₂	-(CH ₃) ₃ CH=CM ₆₃			-CH ₂ C ₂ H ₂ -4-M ₂	-CH3CH=CMes	-(CH ₃) ₂ CH=CM ₆ ,	"IJU HJUHJ —	– ČH₂C≡CMa	July-Ushi	OIIZO6114 4 ME	Chich—CMe2	Christen – Civies	- CH2CH = CCI2	- CH.C.H.	-Cu-Cu-Cu-CM	CIIZCH—CMe2	-CH20H-CCI	-CH ₂ C≡CMe
0	0	0	0			0	0	0	C	C										0
Œ	(E	, E	OH	HO	HO	E E	OMs	OMs	OMs	OMs	OMe	COOL	11000	11000	COOR	HOOD	CHOH	CHOOL	CHOH	СН2ОН
H	H	H	E	Ξ	H	H	H	H	H	H	Ħ	: =	; ;	1 2	= =	= =	= =	7	Н	H
H	H	H	H	二	=		H	E	Ħ	H	=	7	=	=	=	H	I	: =	H	Н
H	E	E	田	Ξ	=	E	E	H	田	H	H	Ħ	=	: =	ı ı	=	=	Ξ	H	Н
H	H	H	НО	HO	HO	HO	НО	НО	НО	НО	ОН	OH	HO	HO	HO	HO	HO	ОН	HO	ЮН
ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе
ОМе	OMe	оМе	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe
Н	Н	Н	F	F	Œ,	দ	F	F	[24	দ	伍	단	Œ	Œ,	[노	伍	伍	ᄕ	F	F
H	H	Н	H	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H
H	H	H	H	Н	H	н	H	H	Н	H	Н	Н	H	Н	Н	Н	Н	Н	Н	Н
H	王	H	H	H	Н	Н	H	H	H	H	Н	Н	Н	Н	H	H	Н	H	Н	Н
H	H	H	H	Н	Н	H	F	王	H	田	H	Н	Н	Н	Н	Н	Н	Н	H	Н
НО	НО	НО	НО	НО	Н0	НО	. НО	НО	НО	ОН	0H	НО	НО	Н0	Н0	Н0	НО	ОН	НО	НО
I-1454	I-1455	I-1456	I:1457	I-1458	I.1459	I-1460	I-1461	I-1462	1.1463	I-1464	I-1465	1-1466	I-1467	I-1468	I-1469	1.1470	1-1471	I.1472	I-1473	I-1474

Table 275

<u>-</u> -نم	···																							
	-CH2CeH4-4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCl2	– CH,C≡CM	awo - ozuo	Ongoen4 - 4 - Me	- CH2CH = CMe2	-(CH2)2CH=CMe2	- CH2CH=CCl2	- CH₂C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	70.00 -110 (110)-	CH2)2CH — CIMe2	-CH2CH=CCl2	−CH ₂ C≡CMe	-CH2C6H4-4-Me	-CH,CH=CMe,	200 110 (HO) -	CONSISCE — CIMES	-CH2CH=CCl2	-CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me
				0	0							0	0			>	0	0	0			0	0	0
110	CH2OH	- I	I,	ഥ	<u></u> 전	[c	, Inc	110	uo Io	uo I	HO ::	ЮН	OMs	OMo	Similar Simila Simila Simila Simila Simila Simila Simila Simila Simila Simila	OMIS	OMs	OMs	H000	HOOD	11000	COOH	Н000	соон
		:	디.	H	H	Ξ	1 7		= =	1 1	:	티	Н	н	1 5	= ;	F	H	н	н	: :	F	H	Н
5		= =		H	Н	Ξ	=	= =		= =	:	F	H	Н	1	= ;	=	Ŧ	Н	H	:	ц	H	H
	= =	=	-	田	Н	Ξ	=	1 =		= =			Н	Ή	1 7	;	티 :	F	H	H	17	5	Ħ	H
HO	HO	100	TION I	НО	НО	НО	ОН	HO	E	HO		UD	ОН	НО	HO		HO	HO	ОН	НО	HO		ЮН	ЮН
OMe	OMe	OMG	OIVIE	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OIME	ОМе	ОМе	OMe	N O	Olwie	OIMe	OMe	OMe	OMe	Cirric	OMe	OMe
OMe	OMe	OMe		OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OM O	CIVIC	OMe	OMe	OMe	OM6	ONE	OIMIE	OMe	OMe	OMe		OMe	OMe
G	[E.,	(F	, ,	<u>-</u>	드	더	H	Н	Н	H	Ή		田	Н	Н	. 1	: 3	=	H	Н	Н		F	H
H	田	Ξ	=	I)	Ħ	Н	Н	Н	H	Н	н		H	Н	Н	II	1 1	=	H	Н	H	=	=	H
H	王	Н	=	=	H	Н	Н	Н	Н	Н	Н	:	F	H	Н	Ξ	Ħ	; ;	=	H	Н	=	=	H
E	王	Н	=	5	H	H	Н	Н	Н	Н	Н		F	Н	Н	Н	I	:	=	田	Н	;	= ;	
H	Н	H	5	5		Ħ	Н	Н	Н	Н	Н	:	E	Н	H	Н	H	. =	F	H	H	ם	;	E
НО	Н0	ОН	HO	110	НО	ОН	OMs	OMs	OMs	OMs	OMs	OM	OIVIB	OMs	OMs	· OMs	OMs	OMC	OMS	OMs	OMs	OMe	210	OMS
I-1475	I-1476	I-1477	1.1478	227.1	1-1479	I.1480	I-1481	I-1482	I-1483	I-1484	I-1485	1,1486	1.1400	I-1487	I-1488	I-1489	I-1490	1,1491	1651-1	I-1492	I.1493	I-1494	I 140E	1.1400

Table 276

			_,		_,_															
- CHO-HO-	-(CH ₂) ₂ CH = CM ₂	- CH, CH = CCI,	—CH ₂ C≡CM _e	-CH.C.H4-M.	-CH°CH=CMC	-(CH ₂) ₂ CH = CM ₂	-CH ₂ CH=CCl ₂	– CH₂C≡CMé	-CH2CeH4-4-Ma	- CH ₂ CH = CM ₆ ,	-(CH ₂),CH=CM ₂ ,	Zamo ricoz(ziro)			Out our out	CHICH = CMe2	-(CH2)2CH=CMe2	- Chich - CCI2	-CH2C=CIMe	$-CH_2CH = CMe_2$
) c		0	C			0	C	0	C										0
CHOH	CHOOH	CH ₂ OH	СН2ОН	СН,ОН	T.	- F	(F	[T	F	НО	ЮН	HO	DHO	HO	OM.	OMS	OME	OM	OMe	Н002
Ξ		H	· H	H	н	H	H	H	Н	H	H	Ξ	Ξ	: =	1 1	7	= =	1 1	= =	E
Щ	=	H	Ħ	H	I	E	H	H	H	H	H	H	=	Ħ	: =	7	11	= =	H	E
H	H	H	H	H	H	H	Н	Н	Н	Н	Н	H	H	Ħ	=	=	Ħ	=	Ξ	H
НО	НО	HO	НО	НО	ЮН	HO	HO	НО	НО	СООН	СООН	СООН	СООН	СООН	COOH	COOH	COOH	COOH	Н000	СООН
OMe	OMe	ОМе	ОМе	OMe	ОМе	ОМе	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе
OMe	OMe	ОМе	ОМе	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе
Н	Н	Н	Н	Ή	H	Н	Н	H	Н	Н	H	Н	H	H	H	H	H	H	H	Н
H	н	H	Н	Н	Н	Н	Н	H	H	H	H	Н	Н	Н	H	H	Н	H	Н	Н
H	H	H	Ħ	H	H	Н	Н	Н	H	Н	H	Н	Н	Ή	Н	н	H	Н	Н	H
H	H	프	田	Н	H	Н	Н	H	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Ħ.
E	王	田	H	田	티	H	田	피	三	픠	H	H	H	H	Н	H	Н	Н	Н	H
OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs
I-1496	1.1497	I-1498	I-1499	1.1500	I.1501	1.1502	I-1503	I-154	I-1505	1.1506	I-1507	I-1508	I-1509	1.1510	I-1511	I-1512	I-1513	I-1514	I-1515	I-1516

Table 277

												_									
	-CH ₂ CH=CCl ₃	−CH°C≡CM°	THOUSE THE STREET	OIIZO6114 - 4 - IME	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCl2	- CH ₂ C ₂ H ₁ -4-M ₂	-CH°CH=CM2	-(CH ₂) ₂ CH = CM ₂	- CH ₂ CH = CCl ₁		- CH2C=CMe	-CH2C6H4-4-Me	- (CH2)2CH=CMe2	-CH2CH=CCl2	−CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-(CH2)2CH = CMe2	-CH2CH=CCI,	-CH ₂ C≡CMe
C	0	C														0	5 (0	0	0
COOH	H000	СООН	CODH	CHOU	CHISON	CH2OH	CH2OH	CHOH	4	. E	i E	G	1 [1	7.011	HO I	HO	HO ::	HO	OMs	OMs	OMs
I	H	H	. 11	: :	= =	= =	=	Ξ	Н	Ħ	H	: :	= =	=		5 =	=	=	H	Н	Н
I	H	H	Ξ	=			= =	H	H	H	H	Ħ	1 1	: :	1 1		= =	=	H	Н	H
Н	H	H	Ξ	I		= =	= =	H	H	Н	H	Ħ	Ξ	7	1 1	7 7	= =	G ;	Ξ	Н	H
СООН	Н000	нооэ	СООН	COOH	HOOD	COOH	COOH	H000	СООН	СООН	СООН	COOH	COOH	CHOOH	CHOH	CHOH	CULOU	CHEON	CH2OH	СН2ОН	СН2ОН
OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OM O	OM O	OIMIC ON	OMe	OMe	ОМе
OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	O Me	3 3	OIMIE	OMe	OMe
Н	Н	Н	Н	Н	I	I	Ξ	Н	Н	Н	Н	H	H	ж	H	=	Ξ	: =		田	H
Н	Н	Н	H	Н	H	Н	H	Н	Н	Н	Н	Н	Н	H	H	H	Ξ	7	=	H	H
Н	Н	H	H	Н	H	Н	Н	Н	H	H	H	H	Н	H	Н	H	Ξ	12	=	H	H
H	H	H	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	H	7		H	H
H	H	田	H	Н	Н	H	H	H	田	H	H	Н	Н	H	Н	H	H	н		F	H
OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs		OMs	OMs
I-1517	I-1518	I-1519	I-1520	I-1521	1.1522	I-1523	I-1524	I.1525	I-1526	I-1527	I-1528	I-1529	I-1530	I-1531	I-1532	I-1533	I-1534	I-1535	1 1 2 0 0	1-1030	1-1537

Table 278

H H H H OMe
H H H H OMe
H · H H H OMe
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H
H H H H

Table 279

_	-					_		-1					-,-			4		-,-	· r				
	-CH ₂ CH=CCl ₂	- CH2C=CMe	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCI3	TOH-U=UM-	-M-V	-CHoCH=CMo-	-/UHD-CHU-			Onzo=Ume	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH ₀ CH=CCl ₂	2100-102110		-CH2C6H4-4-Me	-CH2CH=CMe2	$-(CH_2)_2CH=CMe_2$	$-CH_2CH = CCI_2$	-CH ₂ C≡CMe
				0	0	c	0								0	c				>	0	0	0
	OMS	OIMIS	HOOO	H000	H000	COOH	COOH	CHOOH	CHOH	CHOH	CHOH	1107110	CH2OH	£.	F	Œ	, L	4 6	r.	OH	НО	НО	НО
=	5 7	1 :	티	H	Н	Ή	H	Ξ	П	Ξ Ξ	Ξ	1	G ;	ij	Н	Н	Ξ		G =	ri I	E	H	Н
=		1 =		田	Ĥ	H	Ξ	Ξ	Ξ	=	=	: 2	:		H	H	Ħ		= =	:	되	H	Н
=		=		田	Н	H	E	=	王	Œ	I	7	:	F	H	Н	Н	= =		:	F	н	Н
Ž	Me	Me	ivie	Me	Me	Me	Me	Me	Me	Me	Me	Me	2	IMe	Me	Me	Me	Mg Mg	III II	:		H	H
OMo	OM Mo	OMe	OIME	OMe	OMe	OMe	ОМе	ОМе	OMe	OMe	ОМе	OMe) A	Owie	OMe	OMe	OMe	OMe	OMe		Oivie	OMe	OMe
) MO	OMe) Me	O NIC	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OIME	OMe	OMe	OMe	OMe	OM _o	2 2	OIME	OMe	OMe
Ξ	H	Ξ	:	Ŧ	Н	Н	Н	Н	Н	H	Н	Н	1	: :	티	H	H	H	H	1	=	国	田
Ξ	E	п	:	F	H	Н	Н	Н	Н	Н	Η	Н	П	:	E	H	H	H	H	7	=	E	H
	E	Ξ	=	I.	H	Н	H	Н	Н	Н	Н	Н	Ħ	=	=	H	Н	Н	H	Ħ		F	H
H	Ξ	Ξ	=	E	H	Н	Н	Н	H	Н	Н	H	Ή	=	-	H	Н	Н	Н	π	;	F	H
H	田	H	=	5	듸	H	H	H	픠	H	Ħ	Н	H	=	=	H	Н	H	Н	H		F	H
OMs	OMs	OMs	OMo	OMIS	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMe	CIMS	OMs	OMs	OMs	OMs	OMs	760	OMIS	OMs
I-1559	I-1560	1.1561	1.1569	7007-1	1.1563	I-1564	I-1565	I-1566	I-1567	I-1568	I-1569	I-1570	I-1571	1.1579		I-1573	I-1574	1.1575	I-1576	1.1577	1 1570	0/01-1	1-1579

Table 280

I.1580	OMs	王	H	E	H	I	OMe	OMo	ī		Ŀ	=		(
I-1581	OMs	H	H	E	H	E	OM o	+		= =			HO		-CH2C6H4-4-Me
I-1582	OMs	H	Н	H	E	E	OMe	+			= =	= =	OMS		-CH2CH=CCl2
I-1583	OMs	H	H	H	ıπ	=	OM _o	+		1 =	= =	= =	OIMIS		-CH ₂ C=CMe
I-1584	OMs	Ξ	I	I	=	=	SW O		1 1	= =	:	디 :	COOH		-CH2CH=CMe2
I-1585	OMs	Ħ	17			= =	OME		= ;		티	F	C00H	0	-(CH ₂) ₂ CH=CMe ₂
1.1586	OMo	: :	= =	:	<u>:</u>	= :	Olyle		I		Ħ.	H	Н000	0	-CH2CH=CCl2
	OMS		5	디	=	=	OMe	OMe	H	H	H	Ħ	С00Н	0	—CH2C≡CMe
1-1587	OMs	H	H	Ħ	H	H	ОМе	OMe	Н	田	Н	H	нооэ	0	-CH ₂ C ₆ H ₄ -4-M _e
I-1588	OMs	H	H	Ħ	H	H	OMe	ОМе	H	Н	Н	H	СН2ОН	0	-CH2CH=CMe2
I-1589	OMs	H	H	H	H	Н	OMe	OMe	Н	H	Н	H	СН2ОН	0	$-(CH_2)_2CH = CM_P$
I-1590	OMs	H	H	H	H	Н	OMe	OMe	H	Н	Н	H	СН2ОН	0	-CH ₂ CH=CCl ₃
I-1591	OMs	H	H	푀	H	Н	ОМе	OMe	H	Н	田	Н	CH ₂ OH	0	-CH2C≡CMe
I-1592	OMs	H	H	H	H	H	OMe	OMe	Н	Н	I≡	Ή	CHOOH	0	-CH°C'sH -4-M
·I-1593	OMs	H	Н	H	H	Н	OMe	OMe	H	Н	=	=	1		- (CII) CII—O.
I-1594	OMs	Н	н	H	Н	H	OMe	OMe	I	=	: =	1	i [CH2/2CH - CIMe2
I-1595	OMs	Н	Н	Н	Н	H	OMe	OMe	Н	1	= =	= =	E4 F		-CH2CH=CCl2
I-1596	OMs	Н	Ħ	H	H	Lz.	OMe	OMe	HO	= =	= =	5	- I	5 (−CH ₂ C≡CMe
I-1597	OMs	H	Ξ	H	H	, F	OMe		110	= =	= :	= ;	HO	0	-CH2CH=CMe2
I-1598	OMs	Ħ	=	7	1	, [Omic	aivio	uo :	=	۳	Ŧ	HO	0	-(CH ₂) ₂ CH=CMe ₂
1 1 500		;	;	=	G	-	OIMe	OMe	OH	F	H	H	HO	0	-CH2CH=CCl2
	OMS	F	F	H	H	F	OMe	OMe	ОН	H	Н	H	ОН	0	-CH2C≡CMe
1-1600	0Ms	H	H	H	H	Œ	OMe	OMe	ОН	H	Н	Н	НО	0	-CH2C6H4-4-Me

Table 281

_		÷	_	_				-				·										
- CHO-HO'HO-	-(CH ₂),CH = CM ₂		MO = OHO =	Onso = Civie	-Ch2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH = CMe2	-CH2CH-CC12	-CH.C.HA-M.	am f brigozijo		Christen – Civies	-CH2CH=CCl2	CH₂C≡CMe	-CH2C6H4-4-Me	- CH. CH. — CM	Chich — Civies	$-(CH_2)_2CH = CMe_2$	-CH2CH=CCl2	-CH ₂ C≡CMe	-CH2C6H1-4-Ma	-CH ₂ CH=CCl ₂
													٥		0	c		٥	0	0	0	0
OMs	OMe	OMe	OMe	OMe	COOL	TOOD TOO	1000	COOH	COOH	СН°ОН	CHOH	OH OH	CH2UH	CH ₂ OH	CH ₂ OH	댠		Ξ.	도	ᄄ	ţŦ	Н0
H	Ξ.	Н	Ξ	П	1	1 1	1 1	H	H	H	Ξ	: :	= ;	F	Н	Н	-	G	H	Н	Н	Н
H		Ξ	I	=	=	=	ıπ	H	E	H	Ξ	=	G :	되	Н	Н	1	۲ ;	Ŧ	Н	Н	Н
H		E	Ξ		: ==	=	Ξ	H	H	Н	Н	1	:	F	Н	Н	П		F	H	Ĥ	Н
Н0	НО	НО	НО	OH	E	HO	HO	НО	HO	НО	НО	HO		HO	НО	НО	HO		HO	ОН	ОН	НО
OMe	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	OMe		OIMIE	OMe	OMe	OM6		OIMIE	OMe	ОМе	OMe
OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe	OM C	Olvie	OMe	OMe	OMe	2	OIMe	OMe	OMe	ОМе
Œ	F	F	F	দ	দ	[Ŧ	ĮŦ,	দ	ম	ĽΉ	দ	Ţ.	, C	-	E	댼	F	Ŀ	-	Œ	Œ,	H
H	Н	H	Н	Н	H	田	H	Н	Н	Н	Н	H	Ħ	:	F	Н	H	П	1	H	H	H
H	·王	Ħ	H	Н	Н	H	Н	H	E	H	Н	H	H	:	H	H	Н	Ħ		H	H	Ħ
픠	王	田	Ξ	Н	Н	Н	H	H	H	Ħ	Н	Н	H		=	H	Н	Ħ		H	H	H
H	田	田	H	王	H	H	H	田	王	三	H	H	H		=	田	H	н			H	H
OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMe	CIMIS	OMs	OMs	OMs		OMs	OMs	Œ
1.1601	I.1602	I-1603	I-1604	I.1605	I-1606	I-1607	I-1608	I-1609	I-1610	1.1611	I-1612	I-1613	I-1614	1.1615		1.1616	1.1617	I-1618	1 1010	1-1013	1-1620	1.1621

Table 282

<u>.</u>																				
–CH°C≡CMe	-CH2CH=CCI3	-CH,C≡CMe	-CH,CH=CMe,	-(CH ₃) ₂ CH=CM ₂	-CH ₂ CH=CCl ₂	−CH°C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH ₂ CH=CMe ₂	-(CH ₂) ₂ CH=CMe ₂	-CH2CH=CCI	-CH ₂ C≡CM _β	-CH2C6H4-4-Me	- CH ₂ CH=CC ₁ ,	—CH°C≡CM∘	"IJJ=HJ"HJ-	-CH.C=CM.	-CH°CH=CMo	-(CH ₂),CH=CM ₂	-CH ₂ CH=CCl ₃	- CH ₂ C≡CMe
С	0	0	0	C		0	0	0	0	0	0	0	0	C					0	0
ОН	OMs	OMs	СООН	COOH	COOH	H000	Н000	CH ₂ OH	CH ₂ OH	СН2ОН	СН2ОН	СН2ОН	Į.	[z	OH	OH	OMs	OMa	OMs	OMs
H	H	Н	·H	H	H	H	Н	Н	Н	H	H	H	H	Н	H	Ξ	=	H	H	Н
H	王	田	Ħ	H	H	H	H	H _.	Н	H	H	H	H	H	H	Ξ	H	H	H	H
H	H	Н	H	H	王	H	H	Н	Н	Н	Н	Н	Н	H	H	H	H	H	Н	Н
НО	НО	НО	НО	НО	НО	HO	ОН.	HO	ОН	НО	Н0	НО	. НО	НО	СООН	СООН	H000	СООН	H000	Н000
OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	ОМе	ОМе	OMe	OMe	OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe
OMe	ОМе	ОМе	ОМе	OMe	ОМе	ОМе	OMe	OMe	ОМе	OMe	OMe	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe
Н	Н	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Ή	Н	H
Н	H	H	Н	Н	H	Н	H	H	H	Н	Н	Н	Н	Н	H	Н	H	Н	Н	Н
H	Н	H	H	Н	Н	Н	H	H	H	H	H	H	H	Н	Н	Н	Н	Н	H	H
Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	H	H	Н	Ĥ	Н	Н	Н	Н	H
H	H	H	H	H	H	H	. =	田	田	H	'H	H	Ħ	田	三	H	H	H	H	H
ഥ	F	F-	拓	F	Œ,	F	দ	Œ	Ā	단	E	Ŀ	단	년	H	F	단	Et.	Ŀ	Œ4
I-1622	I-1623	1.1624	I-1625	1.1626	I-1627	1.1628	I-1629	I-1630	I-1631	1.1632	I-1633	I-1634	1.1635	I-1636	1.1637	I-1638	I.1639	I-1640	I-1641	I-1642

Table 283

											_					_ •				
-CH,C,H,-A-M	-CH,CH=CMe,	-(CH ₂) ₂ CH=CM ₆ ,	-CH2CH=CCI2	– CH ₂ C≡CM ₂	-CH ₂ C ₂ H ₂ -A ₋ M ₂	-CH2CH=CM6.	- (CH ₂) ₂ CH = CM _P	-CH2CH=CCI	-CH ₂ C≡CMe	-CH2C6H4-4-Mp	- CH ₂ CH=CCl ₃	– CH,C≡CMe	-CH2CH=CMe3	- (CH ₂),CH = CM ₂ .	-CH,CH=CCI-	-Cu-Ciloria	-CH.C.H. — A—M.	-CHornes Fine	-(CH ₂),CH=CM ₂ .	$-CH_2CH = CCI_2$
С	0	0	0	c		0	0	0	0	0	0	0	0	c					0	0
OMs	СООН	Н000	СООН	COOH	COOH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	Ħ	Ŀ	НО	НО	ОН	HO	E	OMe	OMs	OMs
H	H	Ξ	·H	三	Ξ	H	Н	Н	Н	H	Н	Н	H	H	Ξ	1 1	Ξ	Ħ	H	Н
H	E	H	H	Ħ		H	H	H	Ή	田	H	H	H	H	F	Ħ	=	H	H	Н
H	H	H	田	H	H	H	H	Н	Н	Н	Н	Н	Н	Н	H	H	H	H	Н	Н
Н000	H000	Н000	Н000	H000	СООН	Н000	СООН	СООН	Н000	Н000	Н000	СООН	CH ₂ OH	CH ₂ OH	CH ₂ OH	СН2ОН	CH ₂ OH	CH ₂ OH	CH2OH	CH ₂ OH
OMe	<u> </u>	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe
OMe	ОМе	OMe	ОМе	OMe	OMe	ОМе	ОМе	ОМе	OMe	ОМе	ОМе	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe
H	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	H	H	Н	Н	H
H	H	H	H	Н	Н	Н	H	Н	H	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н
H	Н	田	H	Н	H	Н	H	H	Н	H	H	H	Н	H	Н	Н	Н	Н	Н	H
H	H	H	H	Н	H	Н	H	H	H	Н	Н	Н	H	Н	Н	H	Н	H	H	Н
H	田	H	田	Ε	H	H	H	H	田	田	田	田	田	田	H	H	H	H	H	Н
4	F	F	(T)	ম	Œ	H	H.	[<u>T</u> ,	F	Œ	(±,	E1	(<u>T</u>	CT4	ᅜ	, E-1	Œ	ſΣŧ	더	ᅜ
I.1643	I-1644	I.1645	I-1646	I-1647	I.1648	I-1649	I-1650	I-1651	I-1652	I-1653	I-1654	I-1655	I-1656	I-1657	I-1658	I-1659	I-1660	I-1661	I-1662	I-1663

Table 284

_		·		, .													_							
	-CH ₂ C≡CMe	-CH2C6H4-4-Me	$-CH_2CH=CMe_2$	-(CH ₂) ₂ CH=CMe ₂	-CH ₀ CH=CCl ₂	ZIOO - UZZIIO -	CH2C=CIMe	- Cu-Cu-Cu-Cu-	-(CH ₂) ₂ Cu - CM	- CH ₂ CH = CC ₁	-CH2CII-CCII	OUZO-CIME	Cn2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	−CH°CH=CCI°	2117011 2015	-CH2C=CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe	-/(JH-)-CN-	CITZ/ZCII—CIMEZ	CH2CH—CCI2	-CH2C≡CMe
ľ				0	С					0					0	0) .c) (0	0			2
	OMS	OIMIS	C00H	СООН	СООН	COOH	COOH	CHOH	CHOH	CH ₂ OH	CHOOH	CHOH	N T	-	ᄄ	[Z-	C	£4	-	НО	ОН	НО	IIO	CII
				Н	Н	Ξ	=	=	=	H	Ξ	Ξ	:	=	F	Н	7	= =	F	Н	н	Ξ	: :	7
=		5 1	三	н	Н	Ξ	Ξ	=	=		=	Ħ	: :	=	Ħ	Н	Ħ	= =	=	H	Н	H	17	7
"		:	듸	H	H	E	=	Ξ	H	H	H	Ħ	=	-	E	Н	Ή	=	-	H	Н	Н	Ξ	=
CHOU	CHOH	1102110	CH2OH	СН2ОН	CH ₂ OH	CH ₂ OH	СН2ОН	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	СН2ОН	חסיחט	CHZOH	CH2OH	CH ₂ OH	СН,ОН	CHOU	CIIZOII	Me	Me	Me	Me	
OMe	OMe	3110	OIMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMo	or in	OMe	OMe	OMe	OM6	CIMIC	OMe	OMe	OMe	OMe	
OMe	OMe		OIME	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	OMo		OIMe	OMe	OMe	OMe	31110	OMe	OMe	OMe	OMe	
I	Ξ	. 2		픠	H	Н	Н	Н	Н	Н	Н	Н	н	: :	-	H	H	Ħ	: =	F	H	Н	Н	
Ξ	=	ı	=	H	H	Н	Н	Н	Н	Н	Н	H	Н	1	=	王	H	H	=	F	Н	Н	H	
H	三	=		H	H	Н	H	H	H	H	H	H	Н	Ξ		H	Н	Н	1	=	H	Н	Н	
H	H	7			王	H	Н	Н	Н	Н	H	Н	H	17	=	H	H	Н	7	=	田	H	Н	
田	H	፲	: :	I	H	王	田	Ħ	田	王	田	H	H	፲		F	Н	Н	п	=	H	H	Н	
Į.	F	F	F	- 1	[24]	ت	Œ	도	Œ	(E.,	Œ	드니	٠ ج	[T.	, ,	=	표.	দ	ĹT.		伍	F	Ŧ	
1.1664	I-1665	I.1666	1 1663	1.1007	1.1668	I.1669	I-1670	I-1671	I-1672	I-1673	I-1674	I-1675	I-1676	I-1677	1 1000	1-10/8	I-1679	I-1680	I-1681		1-1682	I-1683	I-1684	

Table 285

	_	-	- I				_			т-		· -	1									
M V I II J II J I	-CH°CH=CM°	-(CH ₂) ₂ CH=CM ₂		011 0 - 011	- CH2C = CMe	-CH2C6H4-4-Me	- CH2CH = CMe2	-CH ₂ CH=CCl ₂	—CH°C≡CM°	-CH ₂ C ₂ H ₂ -A ₋ M ₂	aw t buscard		(Cn2)2Ch — CMe2	-CH2CH=CCl2	-CH2C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-(CH ₂),CH=CM ₂ ,	TOWN TIER THU -	-CH ₂ C=CM ₂	- OIL OIL	-CH2C6H4-4-Me
) C							0	C) c) (0	0	0	C			
OH	OM8	OMs	OMe	OMe	OMS	Olyls	COOH	COOH	COOH	COOH	CHOH	CHOH	0112011	Chron	CH2OH	CH2OH	과	ᄄ	Ĺt.	, E	. 6	1
П	H	I	Ξ	1	= =	G 1	ıπ	H	H	Ξ	н	Ξ	: :	F	= =	=	H	Н	Ξ	I	17	=
l I	=	I	=	F		= =	F		H	E	Ħ	I	= =	= =	5	=	H	Н	H.	H	ī	
I	E	E	三	=		= =	=	H	H	H	H	I	=	1 2	= =	= :	H	H	Н	H	I	
Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	No.	Me	ivie	Me	Me	Me	Me	Me	3111
OMe	ОМе	OMe	OMe	OMe	OMe		1	OMe	OMe	OMe	OMe	OMe	OMe	OM O	OM C	olwie C	OMe	OMe	OMe	OMe	OMe	2
OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OM o	omic o	OMe	OMe	OMe	OMe	OMe	
H	Н	Н	Н	Н	Ξ	Н	Н	Н	Н	H	Н	Н	H	Ξ	: =	=	E	田	H	Ή	Н	
H	H	Н	Н	Н	□	H	Н	Н	Н	Н	Н	Н	Н	H	Ħ	1	r l	Н	Н	Н	Н	
Ξ	H	H	H	Н	H	H	Н	H	H	H	Н	H	H	H	H	1	r	H	Н	Н	H	
H	H	H	Н	H	Ŧ	H	Н	Н	H	H	H	H	H	Н	Н	H	=	H	Н	Н	Н	
H	H	田	H	H	H	H	H	田	F	H	三	H	Н	田	H	1	1	曰	H	H	Н	
[-	ᄄ	Ŀ	Ξ.	Ţ	ርቲ	딘	伍	Œ	Œ	মে	Ŀ	ĹŦ.	Œ	<u> </u>	ম	ᄕᅩ	1	Ţ.	F	দ	F.	
I-1685	I-1686	1.1687	1.1688	I-1689	I-1690	I-1691	I-1692	I.1693	I-1694	I-1695	I-1696	I-1697	I-1698	1.1699	I.1700	I-1701		1-1702	I-1703	I-1704	I-1705	

Table 286

			-																				_	
710 HO -	- CH2CH - CMe2	Consysch—CMes	-CH2CH=CCI2	—CH2C≡CMe	-CH2C6H4-4-Me	-(CH ₃) ₂ CH=CM ₂ ₂	ZaMO_IIOZ/ZIIO)	-CH ₂ C=CM ₂	-CH°C-CIME	-CU CII-OM	CONTROL COMES	-(CH2)2CH=CMe2	-CH2CH=CCl2	– CH ₂ C≡CM _P		Chichta-4-Me	-CH2CH=CMe2	-(CH2)2CH = CMe2	-CH2CH=CCl2	-CH,C≡CM	2110 110 -	Chichia Me	-CH2CH=CMe2	-(CH2)2CH = CMe2
0				0	0	С	0	0	0			>	0	0	. 0)	0	0	0	0			9
HO	HO		ПОП	НО	НО	OMs	OMs	OMs	OMe	COOH	11000	COUR	H000	C00H	поол	11000	Chron	CH2OH	СН2ОН	CH ₂ OH	CHOU	0112011	۲ ۲	1
П	= =			Ħ	Н	H	H	I	I	Ξ	1 1	=	H	Н	Ή	1	= :	F	F	H	Ξ	: 2	= =	
I	F		= :		H	H	H	H	F	I	1	ŧ	H	H	Ħ		= =	디	피	H	н	=	= =	
=		=	:	듸	H	H	E	H	H	=	I		H	H	Н	17	= =	G	H	H	Н	Ξ		
H	I	Н		I	H	Н	H	H	Н	H	Н	; ;	되	H	Н	Ħ		:	Ŧ	Н	H	H	П	
OMe	OMe	OMe	200	OMe	ОМе	.ОМе	ОМе	OMe	OMe	OMe	OMe		OMe	OMe	ОМе	OMe) N	3	OMe	OMe	OMe	OMe	OMe	2
OMe	OMe	OMe	N O	OIMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	210	OIMe	OMe	OMe	OMe	OMe	3	OIMe	OMe	OMe	OMe	1	ऱ
H	H	Н	=	= :	H	Н	Н	Н	Н	H	Н	=	-	H	Н	Н	Ή	: :		H	Н	Н	H	
H	Н	Н	ם	:		H	H	H	Н	H	H	7		H	Н	Н	H	ם	5	H	Н	Н	H	
H	Н	Н	I	:		三	- 王	H	H	H	H	П	T	H	Н	Н	Н	Ħ		H	Н	Н	H	
·Η	Ξ	Н	I		=	H	田	H	H	Н	Н	Д	=	H	Н	Н	H	Ħ		E	H	Н	Н	
H	田	H	Ξ	=		픠	田	픠	三	Ħ	H	H		F	H	H	Н	Н	;	F	H	Н	H	
ᄕ	F	Œ	ſŦ,	<u>-</u>	1	伍	ᄄ	Œ	Œ	(Z4)	단	Ĺ		.	Œ.	F	· FT	Į.		z.	ഥ	Ę	뚀	
I-1706	I-1707	I-1708	1-1709	1.1710	01111	1:1711	1.1712	I-1713	I-1714	I.1715	1.1716	I-1717	1 1 1 1 0	1-1/10	I-1719	I-1720	I-1721	I-1722	1 1709	07/1.1	I-1724	I-1725	I-1726	

Table 287

1-1727	Ę.	H	Н	H	H	H	ОМе	ОМе	Н	H	H	H	[Ŧ,	0	-CH2CH=CCl2
I-1728	E.	H	Н	Н	Н	Н	OMe	OMe	Н	田	H	H	Ţ	0	-CH ₂ C≡CM _P
I-1729	ন	H	Н	H	H	Н	OMe	OMe	Н	H	田	H	Ę	0	-CH ₂ C ₆ H ₄ -4-M _P
I-1730	Œ.	H	H	H	H	দ	OMe	ОМе	Н0	Н	田	H	НО	0	-(CH ₂) ₂ CH=CMe ₂
I-1731	(Z4)	王	Н	H	Н	Ŧ	OMe	ОМе	НО	H	田	H	НО	0	- CH ₂ CH = CC ₁
I.1732	ഥ	H	Н	Н	Н	F	OMe	OMe	. НО	H	H	H	НО	C	– CH°C≡CMe
I-1733	1	H	H	Н	Н	ম	OMe	OMe	НО	H	田	E	НО	0	-CH ₂ C ₆ H ₄ -4-M _p
I.1734	F	H	H	Н	Н	[Ŧ,	ОМе	OMe	Н0	H	H	H	OMs	0	-CH2CH=CMe2
I.1735	F	H	H	Н	Н	댠	ОМе	OMe	НО	H	H	H	OMs	0	$-(\mathrm{CH}_2)_2\mathrm{CH} = \mathrm{CMe}_2$
I.1736	F.	H	H	Н	Н	Œ,	OMe	ОМе	НО	Н	H	H	OMs	0	- CH2CH = CCl2
I.1737	F	H	H	Н	H	ഥ	ОМе	ОМе	НО	Н	H	H	OMs	0	-CH ₂ C≡CMe
I-1738	F	H	H	Н	Н	দ্র	OMe	ОМе	НО	Н	Н	н	OMs	0	-CH ₂ C ₆ H ₄ -4-Me
I-1739	단	H	H	Н	Н	F	OMe	ОМе	НО	H	H	Ħ	НООО	0	-CH,CH=CMe,
I.1740	F	Н	Н	Н	Н	দ	ОМе	ОМе	НО	E	E	=	СООН	0	-(CH ₂) ₂ CH=CM ₂
I-1741	T	Н	Н	Н	Н	ഥ	ОМе	ОМе	НО	E	Ξ	F	COOH		-CH ₂ CH=CCl ₂
I-1742	F	Н	Н	Н	Н	ഥ	OMe	OMe	НО	Ξ	F	=	COOH		-CH ₂ C=CM ₂
I-1743	FI	Н	Н	Н	Н	ᄄ	OMe	ОМе	НО	=	=	=	COOH		-CH ₂ C ₂ H - 4-M ₂
I-1744	Et.	H	H	Н	Н	ഥ	ОМе	ОМе	НО	H	E	=	CHOOH		- CHoCH=CMos
I-1745	F	Н	Н	Н	Н	F	OMe	OMe	НО	E	H	Ξ	CHOH	0	-(CH ₂) ₂ CH=CM ₂
I-1746	E4 .	H	H	H	Н	伍	ОМе	ОМе	НО	H	E	H	СН2ОН	0	- CH ₂ CH = CCl ₂
1.1747	(<u>F</u> 4	Н	Н	H	Н	Œ	OMe	ОМе	НО	H	H	H	СН2ОН	0	-CH2C≡CMe
														,	~*** ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~

Table 288

٠, ٢																									
***************************************	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH ₂ CH=CC ₁	WJ=J"HJ-	OII O II	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCl2	-CH,C≡CMe	-CH-C-II	O11206114 4 - IME	$-CH_2CH = CMe_2$	$-(CH_2)_2CH=CM_{P_2}$		CH2CH - CC12	- CH2C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-/(H2)-UJ-(HJ)-	COLIZ/ZORI — CIMIEZ	-CH2CH=CCl2	−CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me
			이	0	С					0	0				0	0			0	0	C		5	0	0
CUCOU	Chron	-	<u></u>	댼	Ľ.		1 5	uo mo	НО	НО	НО	HO		OMB	OMs	OMe	OM	OIMS	OMs	000	COOH	11000	COOH	H000	СООН
=	1=	<u>ا</u>	픠	H	H	=	=	= =	E	E	Н	H	:	ı.	Н	Н	: 1	;	F	Н	Ï	F	G	三	H
1				H	H	=		= =	F :	듸	H	Н			Н	H	=	=		H	H	ם	= ;	H	H
=		1	듸	H	H	Ξ	: =		:	디	Н	H	=		王	H	I		=	H	H	Ħ		F	H
HO	H	5 8	HO	ЮН	НО	НО	НО	HO		HO	НО	НО	770	5	НО	НО	OH	100		НО	НО	HO		핅	HO
OMe	↓		OIMe	OMe	OMe	OMe	OMe	OMo		Oivie	OMe	ОМе	OMo	OTHIC	ОМе	ОМе	OMe) M	Civic	OMe	OMe	OM _o	3	OMie	OMe
OMe	OMe	Ž	OIMIE	OMe	OMe	OMe	OMe	OM _P	N O	OIME	OMe	OMe	OMe		OMe	ОМе	OMe	OMe	3	OMe	OMe	OMe	O MC	CIVIC	OMe
12	ſŦ.	[:		드	ഥ	দ	Н	Ξ	=	=	Ħ	Н	Щ	;	Ŧ	Н	Н	Н	=	=	H	H	Ħ	;	H
H	H	7	1		H	Н	H	H	Ħ		F	H	H	:	F	H	Н	Н	=	4	H	Н	ī	:	Ŧ
Н	H	Ξ	:	티	푀	H	*	*	*	.	*	*	*		*	*	*	*	*	•	*	*	*	-	×
H	Н	H	:		田	H	H	H	Н	: :	F	H	Н	;	듸	H	Н	Н	7	-	Ħ	Н	Н	=	
H	Н	H	=		刊	国	Н	H	Н	:		三	Н	=		田	H	H	ם		H	Н	Н	1	=
٢.	[±,	ᄕ		<u>:</u>	<u>-</u>	도	*-0 ² H2O-	-0CH ₂ O-*	-0CH ₂ 0-*	# 0 HJU-	- OCH2O - *	-0CH ₂ 0-*	-0cH ₂ 0-*	* - O.H.O	# 021120	-0CH ₂ 0-*	-0CH ₂ O-*	-0CH20-*	-0CH ₂ O-*	0 m	-0CH20-*	-0CH ₂ 0-*	-0CH ₂ 0-*	*-0.H70-	+ 021120
I-1748	1.1749	I-1750	1,1751	1011-1	1.1752	I-1753	I-1754	1.1755	1.1756	1 1757	1.17.07	1.1758	I.1759	1.1760		1-1761	1.1762	I-1763	I-1764	1 1 1 1 1 1	co/1-1	I-1766	I-1767	1.1768	2017

Table 289

Į.		_		Τ_	T	_		_					F	·		_	- 1		<u> </u>	т-				
	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCl2	- CH,C≡CMe	amo-ozuo	Chichia – 4 – Me	CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCI2	-CH2C=CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH = CMe3	ייטריחטיחט –	Onich - CCI2	-CH2C=CMe	-CH2C6H4-4-Me	$-CH_2CH = CMe_2$	-(CH ₀) ₀ CH=CM ₀		CIIZON—COI2	—CH2C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH = CMe2
			0	0]		0	C			0	0	С	0		5 6		0
011	CH2OH	CH2OH	СН2ОН	CH ₂ OH	СН°ОН	1102111 D	i [4 6	4 6	-		HO	НО	НО	15	5 5	HO	OMs	OMs	OMe	ST. S	OIMIS	OIMI8	Н000
F			Ħ	·H	I			1 1	П	1 1	= :	Ŧ	H	Н	: :	;	F	田	Н	н	: :	= =	-	H
-	= =		Ħ	H	Ξ	= =	1 12	= =	1	17	11 1	티	Н	Н	12	;	F	H	H	Ξ	1 2	1 2	=	国
1			三	Н	Ξ	=	H	11	Ħ	= =	= =	티	H	H	17		II I	H	H	H	=	1 1	=	H
HO	HO		НО	НО	НО	HO	OH	HO	HO	OH	0000	UOO2	000Н	H000	COOH	11000	COUR	COOH	C00H	СООН	COH	COOH	11000	COOH
OMe	OMe	Ciric	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMo	OIME	OMe	ОМе	OMe	S S	a compa	OMe	OMe	ОМе	OMe	OM _P		OMe
OMe	OMe	2	OMe	OMe	ÓMe	OMe	OMe	OMe	OMe	OMe	O.M.o.	OTME	OMe	OMe	OMe				OMe	OMe	OMe			OMe OMe
Ξ	H	:	I	H	Н	Н	H	H	H	H	Ħ	1	H	Н	Н	Ξ	=	5	田	Н	H	H	+-	-1
H	=		<u>تا</u>	H	Н	Н	Н	Н	Н	Н	H		H	H	Н	Ή	: =	۵.	H	H	Н	H	=	
*	*	,	+	*	*	*	*	*	*	*	*		*	*	*	*	×		*	*	*	*	*	-
H	田	:		王	田	Н	Н	Н	Н	Н	Н	:	F	H	Н	H	Ħ	;	F	Н	Н	Н	Ή	
H	王	:		三	H	H	Н	H	H	Н	H	;	F	H	Н	H	Ħ	:	Ξ	H	Н	H	П	
-0CH ₂ 0-*	-0CH20-*	*-0°HDO-	. 071100	-0CH20-*	-0cH ₂ 0-*	-0CH ₂ 0-*	-0cH ₂ 0-*	-0cH20-*	-0cH20-*	-0CH ₂ 0-*	-0CH ₂ 0-*	# 0.1100 -	- OCH20 - *	-0CH ₂ O-*	-0CH ₂ O-*	-0CH ₂ O-*	-0cH ₂ 0-*	÷ 011001	OCH20 *	-0cH20-*	-0CH2O-*	-0cH20-*	-0cH ₂ 0-	
1.1768	I-1769	1.1770		1.1771	I-1772	I-1773	1.1774	I-1775	I-1776	I-1777	I.1778	1 1770	1.11.1	I.1780	I.1781	I-1782	I.1783	1 1704	1.1/04	I.1785	I-1786	I-1787	I-1788	4

Table 290

5	IME2	77	2 2	al L	1e ₂	Wle2	21/2	Z Z			11.	21/	, ;	N N		Mez	12	a)	Me	62
- MO = HO*(*HO) -	-CH,CH=CCI,	– CH ₂ C≡CM ₂	CH ₂ C ₂ H ₂ C	-CH2-CH2-CM		-CH ₂ CH -CMe ₂	—CH ₂ C≡CM ₂	CH ₂ C ₆ H ₄ -4-M ₆	-CH ₂ CH=CM ₂	-(CH ₀) _c H = CM ₀	-CH ₂ CH=CCl ₃	DO - UP, I	11 0 11 0 11 V	Olizoen4 – 4 – Me	CH2CH - CMe2	-(CH2)2CH = CMe2	-CH2CH = CCI2	-CH2C=CMe	CH2C6H4-4-Me	-CH2CH=CMe2
	+				'		0	0	0	\vdash	+-				+-	+) (
COOH	COOH	СООН	COOH	CHOH	CHOH	CH ₂ OH	СН2ОН	CH ₂ OH	Ľ.	Ŀ	[z	(E	, C	1 2	5 5	5		5	H S	OMis
П	H	H	Ξ	Ξ	=	=	E	Н	Н	H	Ξ	I	=	: =	: :	= =	= =	1 =	= =	c :
I	E	田	H	Ξ	. =	H	H	Н	Н	H	Н	H	Ħ	=	=	= =	= =	= =	= =	= =
H	H	H	H	田田	Ξ	H	Н	Н	Н	Н	H	H	Ξ	É	: =	= =	1 1	=		= =
H000	Н000	H000	Н000	НООО	СООН	H000	Н000	Н000	СООН	H000	СООН	СООН	СООН	CH ₂ OH	CH ₂ OH	CHOH	CH ₂ OH	CULOU	CHOOL	CHOL
OMe	ОМе	OMe	ОМе	OMe	OMe	OMe	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OM _e	OMe	OM6	O O) Me
OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	ОМе	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	O Me	OM _o) M
H	Н	H	Н	H	H	Н	H	H	H	Н	Н	Н	H	H	H	H	田	Ξ	=	=
Н	Ĥ	Н	Н	Н	Н	H	H	H	H	Н	Н	Н	Н	Н	H	H	H	Ξ	Ξ	I
*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
표	H	H	H	Н	Н	Н	Н	H	H	Н	H	H	Н	Н	Н	Н	Н	Η	H	H
H	F	三	H	H	H	Н	H	H	H	Н	Н	Н	Н	Н	Н	Н	H	H	Н	Н
-0cH20-*	-0CH ₂ 0-*	-0CH20-*	-0CH ₂ 0-*	-OCH ₂ O-*	-0CH ₂ 0-*	-0CH ₂ 0-*	-0CH ₂ 0-*	-0CH ₂ O-*	-0CH ₂ O-*	-0CH ₂ O-*	-0CH ₂ 0-*	-0CH ₂ 0-*	-0CH ₂ O-*	-0CH ₂ 0-*	-0CH ₂ 0-*	-0CH ₂ 0-*	-0CH ₂ O-*	-0CH ₂ 0-*	-0CH20-*	-0CH20-*
1.1789	I-1790	I-1791	1.1792	I-1793	1.1794	I.1795	I.1796	I-1797	I-1798	I.1799	I-1800	I-1801	I-1802	I.1803	I.1804	I.1805	I-1806	I-1807	I-1808	1.1809

Table 291

ı '	-0CH70-	H	H	*	Ξ	H	OMe	O Mo	CHOU		E				
[DO-	-0CH ₂ O-*	E	=	*		=	OM O		CHOOL	۶ ا	= =	= =	OMs		-CH2CH=CCI2
00-	+-0 ² H20-	E	I	*			JA O		CHOH				Oivis	0	-CH₂C≡CMe
00-	-0cH20-*	H	田	*	E	=	OMe		CHOH		= =		OIMIS		-CH2C6H4-4-Me
00-	-0CH ₂ 0-*	田	H	*	F	=) M		CHOH	= =		= =	1000		-CH2CH=CMe2
ŏ	-0CH ₂ 0-*	H	·H	*	田	F	OMe	+	CH3OH	= =		= =	COOR		-(CH2)2CH=CMe2
ŏ	-0CH20-*	H	H	*	Н	田	OMe	╂	CH ₂ OH	=	I	1 =	COOH		- CH2CH = CCI2
ŏ	-0CH ₂ 0-*	H	H	*	Н	H	ОМе	-	CH ₂ OH	H	H	H	H000	0	-CH,CH,-4-Me
힊	-0CH20-*	H	H	*	H	田	OMe	OMe	CH ₂ OH	Н	H	H	CH ₂ OH	0	- CH2CH=CMe2
힘	-0CH ₂ 0-*	H	H	*	H	H	OMe	ОМе	CH ₂ OH	Η	H	H	СН2ОН	0	-(CH ₂),CH=CMe,
힘	-0CH ₂ 0-*	H	H	*	H	H	OMe	ОМе	CH ₂ OH	Н	H	H	СН2ОН	0	-CH,CH=CCI,
위	-0CH ₂ 0-*	H	H	*	H	H	OMe	ОМе	CH ₂ OH	Н	Н	H	СН2ОН	0	– CH ₂ C≡CMe
위	-0CH ₂ 0-*	Н	H	*	H	Н	OMe	OMe	CH ₂ OH	Н	H	H	СН,ОН	C	-CH°C,H4-M°
위	-0CH ₂ 0-*	H	Н	*	Н	H	OMe	OMe	CH ₂ OH	H	H	Ή	F) c	aw + bractio
위	-0cH20-*	Н	H	*	H	Н	ОМе	OMe	СН,ОН	I	=	H	Ĺ		-/CH > CH - CMez
위	-0CH ₂ 0-*	H	Н	*	田	H	OMe	OMe	СН,ОН	=	=	: 1	בן		CIT OIL CINE
위	$-0CH_20-*$	Н	Н	*	H	H	OMe	OMe	CH ₂ OH	=	= =	1 1	i [-CH2CH-CCI2
위	-0CH ₂ 0-*	Н	Н	*	E	H	OMe	OMe	СН2ОН	H	I	1 1	£4		-CH2C=CMe
Ϋ	-0CH ₂ 0-*	Н	Н	*	Н	Н	OMe	OMe	Me	Ξ Ξ	=	I	, HO		- CH-CH-CM
ö	-0CH ₂ O-*	H	Н	*	Н	Н	OMe	OMe	Me	H	F	Ξ	HO		-(CH ₂) ₂ CH-CM ₂
ρļ	-0cH20-*	H	H	*	Н	Н	OMe	ОМе	Me	H	=	Ξ Ξ	HO		-CH2CH-CCI
										1			1,1,	7	2170-1102110

Table 292

H * H H OMe
-
H * H
H * H H
H * H
H * H
Н * Н
H *
H * H
H * H
H * H
H * H
H + H
H + H
H * H
H * H
H * H
H
H * H
Н * Н
H * H

Table 293

ſ			1							-					·			_								
	-CH2C6H4-4-Me	-CH ₂ CH=CM ₆ ,	2000 - 110 (III) -	CH2/2CH - CIMe2	-CH2CH=CCl2	-CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-(CH ₂),CH=CMe,	ייסט־חט־חט־	OHZUH-COR	-CH2C≡CMe	-CH2C6H4-4-Me	-CHJ-HJ-	Zalvio 1107110	-(CH2)2CH=CMe2	- CH2CH=CCI3	O 110	-CH2C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	- (AHA)-CH-	Conzigon — Cimez	-CH2CH=CCl2	−CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me
	0	0					0	0	0	0			0	С			0			0	0	0		٥	0	0
	দ	НО	НО	5 5	HO :	HO	НО	OMs	OMs	OMe	OM	OIVIS	ОМв	COOH		COOH	000	1000	COOR	C00H	СН2ОН	CHOH	1107110	CH2OH	CH ₂ OH	CH ₂ OH
	田	Н	Н		= =		믜	픠	Н	Н	п	1	H	Н		=	H	П	:	F	Ħ	Ξ	=	-	F	H
	H	Н	. Ή	7	1	<u>:</u>		E	Н	H	=		Ħ	H	=	5	H	Ħ	;	Ξ	Ħ	Н	1	= ;	티	H
-	H	Ξ	H	=	=	:			H	H	Ξ			H	ם ו	=	F	Ή	: =	=	Ħ	H	Ħ	;	F	H
	Me	Н	Н	н	ı	= =		H	H	H	Н	:	티	Н	Ħ		H	Ή	=	G ;	H	Н	н	= =		H
	OMe	ОМе	ОМе	OMe	OMe		Owie	OIMe	ОМе	ОМе	OMe	3	OMe	OMe	OMe		OMe	OMe	OMo	Owie	OMe	OMe	OMe	3	Civie	OMe
	OMe	OMe	OMe	OMe	OM _P	OM O	olwic C	OIMe	OMe	OMe	OMe	O.Y.	OIMe	OMe	OMe	1	OMe	ОМе	OMe		OMe	OMe	OMe	OM O		OMe
Ŀ	E	王	Н	Н	Н	П	= =		H	H	Н	7	=	H	H	=	=	Н	Ή	=	-	田	H	I	+	
	F :	E	H	H	H	I		1 :	H	Ħ	Н	- 1	=	H	Н	12		H	Ξ	1 1		H	Н	н		II
*		*	*	*	*	*	*		*	*	*	*		*	*	*		*	*	*		*	*	*	,	6
l I	= =	티	H	Н	Н	Н	I	: :	Ħ	H	Н	Ħ	: :	F	Н	π	=	H	Н	Ħ	:	티	Н	H	7	
=		티_	피	H	Н	H	Ξ	:		H	H	Н		F	Н	д		H	H	Н	:	F	H	H	7	1
-0cH ₂ 0-*	* -0"HJU-		*-0CH2O-	-0CH ₂ O-*	-0CH ₂ O-*	-0CH ₂ O $-*$	-0CH ₂ O - *	* -0.H70-	+ 021120	*-0cH20-	-0CH ₂ O-*	$-0CH_20-*$	* -0.U0-	* 102U0	-0CH ₂ 0-*	-0CH ₂ 0-*	O HOO	+-0cH20-*	-0CH ₂ 0-*	-0CH ₂ 0-*	* O HJO-	* I OCH2O I	-0CH ₂ O-*	-0CH ₂ O-*	-0CH ₂ O-*	
I-1852	1.1853	1000	1-1854	I-1855	1:1856	I-1857	1.1858	1.1850	2001	1-1860	I-1861	I-1862	1,1863	0001-1	1.1864	I-1865	1 1000	1-1000	I-1867	I-1868	1.1860	0001-1	I-1870	I-1871	I-1872	

Table 294

*
H * H
H * H
* H
*
#
* H
*
;
*
*
*
H *
H * H
H * H
H * H
H * H
H * H
H * H
*
;
*
H * H

Table 295

_									<u>. </u>													
10 - HO (HO) -	-CH-CH-CMe2	CH2CH—CCI2	-CH2C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CM63	-(CH ₀)°(H ₀) = CM ₀	-CH ₂ CH = CCI	—CH°C≡CMe	-CH ₂ C ₆ H ₄ -4-M ₅	-(CH ₃) ₂ CH=CM ₆		MU=Unit	AND-DZIIO	CH2CH - CIMe2	-(CH2)2CH=CMe2	- CH2CH=CCl2	-CH ₂ C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH ₂),CH=CM ₆ ,	- CH ₂ CH=CCI ₂	-CH ₂ C≡CMe
				0	0	c			C	C	C) (٥	0	0	C	0
CHOH	CHOH		CH2UH	CH ₂ OH	댠	Ŀ	E	GE.	[±,	НО	НО	HO	OMe	OM	OWIS	OIMB	OMB	OMB	C00H	С00Н	НООО	СООН
Ξ	=		5	H	H	Ξ	Н	H	H	Н	H	н	Ξ	: 1	= =	1 1	= =	=	F	Н	H	Н
H	=			티	H	H	=	H	Ħ	H	H	H	H	=		= =	= =	=	H	Н	Н	Н
		=		듸	Н	H	E	H	H	Н	H	H	Н	Ξ	; ;	1 1	= =	G :	F	H	H	Н
HO	HO	HO		HO	НО	НО	НО	НО	НО	ЮН	H0	НО	НО	НO	HO	HO	100		HO	ОН	ОН	НО
OMe	OMe	OMe	3	OMe	OMe	ОМе	OMe	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	o Wo	a la	OIMe	OMe	ОМе	ОМе
OMe	ОМе	OMe		OMe	OMe	ОМе	OMe	ОМе	OMe	ОМе	OMe		OIMe	OMe	OMe	ОМе						
13	ᄄ	<u></u>	F	-	Œ	F	F	F	[24	Н	Н	Н	Н	Н	H	H	Ή	1		H	H	H
H	H	Ħ	=	티	H	Н	Н	H	H	H.	Н	Н	H	Н	Н	H	H	P	=	H	H	H
*	*	*	*	+	*	*	*	*	*	H	H	H	H	Η	Н	H	Н	=		H	H	H
Н	Н	H	7	5	F	H	H	H	H	H	Н	H	Н	H	Н	Η	H	п	1	H	H	H
田	H	H	=		H	田	田	三	E	田	田	田	H	Н	Н	Н	Н	H	:	H	H	H
-0cH20-	-0cH20-*	-0CH20-*	-OCH ₂ O-*	- 071100	-0cH20-*	-0CH ₂ O-*	-0CH ₂ 0-*	-0CH ₂ 0-*	-0CH20-*	NMe2	NMe ₂	NMe,		NMe ₂	NMe2	NMe2						
1.1894	I-1895	I-1896	1.1897		1-1898	I.1899	1.1900	I.1901	I-1902	I-1903	I-1904	I-1905	I-1906	I-1907	I-1908	I-1909	I-1910	I-1911	0.0.1	1.1912	I-1913	I-1914

Table 296

ا ،	ارد	Τ.	<u>.</u>	\top	_	اه	Ţ.	7	$\overline{}$	Τ,	<u>.</u>	· T	٦,	· -		<u>., [</u>		٦٦		Τ	T
-CH.C.H.C.H.	-CH ₂ CH=CM ₂	- (CH ₂) ₂ CH = CM ₂ .	-CH-CH=CCI	2100 - 1102110 -	CH2C = CIME	-CH ₂ CH ₃ -GM ₂	-(CH ₂) ₂ CH=CM ₂	-CH ₂ CH=CCl ₂	-CH _o C=CM _o	-CH ₂ C ₂ H ₂ - A - M ₂	WY F BURNEY		-(CH2)2CH = CMe2	-CH2CH=CCI2	- CH ₂ C=CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH = CMe2	-CH2CH=CCl2	-CH2C≡CMe	-CH2C6H4-4-Me
C		0	C				0	0	C	0							0		0	0	0
COOH	СН,ОН	СН2ОН	CH ₂ OH	CHOH	CHOLL	F. F.	, E	F	Ę	, E	ЬUH	100		10 5	5	HO 30	OMs	OMs	OMs	OMs	OMs
H	H	H	Ξ.	П	1 1	I	H	Ξ	H	Ξ	Ħ	=	1 1			5	= :	E	H	Н	Н
F	E	H	H	=	=	I	H	E	H	H	Ħ	1	1	= =	= =	1 1	- :	F	H	H	Н
Ħ	H	H	H	Ξ	I	H	H	Н	H	H	Н	ī	1 1	= =	= =	= =	G :	-	H	H	Н
НО	НО	HO	НО	HO	OH	HO	HO	HO	НО	НО	НООО	COOH	COOH	COOH	COOH	TOOD TOO	1000	HOOO	C00H	С00Н	С00Н
OMe	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe.	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OM O	OME	OIME	OMe	OMe	OMe
OMe	ОМе	ОМе	ОМе	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OM O	OM C	OIME	OMe	OMe	ОМе
Н	H	Н	Н	Н	H	Н	Н	Н	Н	H	Н	Н	H	H	H	I	=	:	F	H	H
H	H	Ħ	Н	Н	H	田	Н	H	Н	Н	Н	H.	Н	H	H	Ħ	H	: :	H	Н	H
H	Н	H	Ŧ	H	H	н	H	王	·H	H	Н	Н	H	H	Н	Н	H	: :	I	H	H
H	H	E	田	Н	Н	Н	王	H	H	H	Н	H	H	H	H	H	Ħ	=	F	H	H
H	田	H	Ŧ	Н	H	Н	田	田	H	F	田	H	Н	H	Ħ	E	Ξ	=	=	H	H
NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe2	NMe ₂	NMe ₂	NMe2	NMe ₂	NMe2	NMe2	NMe ₂	NMe ₂	NMe ₂	NMe2	NMe ₂	NMe2	NIME	14 IVIEZ	NMe ₂	NMez
1.1915	I-1916	I-1917	I-1918	I-1919	I-1920	1.1921	I-1922	I-1923	I-1924	I-1925	I-1926	I-1927	I.1928	I-1929	I-1930	I-1931	I.1932	1.1033	1-1000	I.1934	I-1935

Table 297

\ \frac{1}{8}	الله الراد	<u>-</u>		٤	2	ئى ئ			٥	5	ق ا		,	۶	2 2	2 3	77 6	4	٩	
-CH,CH=CMe,	$-(CH_2)_2CH = CMe_3$	$-CH_2CH = CCI_3$	-CH ₂ C≡CM _P	CH ₂ C ₂ H ₂ – 4 – M ₂	-CHoCH=CMo	- (CH ₃) ₃ CH = CM ₈ ,	-CH2CH=CCI3	–CH2C≡CMe	CH2C6H4-4-Me	-CH2CH=CMe3	(CH ₂) ₂ CH = CM _E ₂	-CH ₂ CH=CCI ₃	-CH ₂ C=CM ₂	5	-CH ₂ CH=CM ₂	-(CH ₂) ₂ CH = CM ₂	-CH,CH=CCI,	- CH ₂ C≡CM _P	CH ₂ C ₆ H ₄ -4-M _e	
0	 	0	0	, c) 0	+	├	0	0	0	0	 c		, 0	0	╁	┼	0	0	
Н000	Н000	Н000	НООО	COOH	CHOOH	СН2ОН	СН2ОН	CH ₂ OH	СН2ОН	F	Į.	Œ	Ŀ	Œ	HO	HO	HO	НО	НО	
H	Н	H	H	H	Ξ	H	H	Н	H	H	H	H	王	Ξ	E	H	E	H	H	
H	Н	H	H	H	H	H	Н	Н	Н	н	Н	H	H	Ξ	H	H	H	H	H	
Н	Н	Н	H	H	H	Н	Н	Н	H	Н	Н	Н	H	H	H	H	H	H	H	
C00H	Н000	Н000	СООН	СООН	СООН	Н000	000Н	С00Н	СООН	СООН	СООН	СООН	СООН	СООН	CH ₂ OH	CH ₂ OH	CH ₂ OH	СН₂ОН	CH ₂ OH	
OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	
OMe	OMe	ОМе	OMe	ÓMe	OMe	OMe	ОМе	OMe	OMe	OMe	ОМе	ОМе	OMe	ОМе	ОМе	ОМе	ОМе	OMe	OMe	
Н	Н	Н	Н	H	Н	Н	H	H	H	王	H	Н	Н	Н	H	Н	Н	H	H	;
H	Н	Н	Н	H	Н	Н	H	H	H	H	H	Н	Н	Н	Н	Н	Н	H	H	:
Н	H	Н	Н	Н	H	Н	H	H	H	H	Н	Н	Н	Н	Н	Н	H	H	H	-
H	H	H	H	Н	Н	Н	H	H	H	田	H	Н	H	Н	Н	. н	H	H	H	11
Ħ	H	Н	H	Н	Н	H	H	H	Н	H	Н	H	Н	Н	Н	Н	H	H	H	11
NMe ₂	NMe ₂	NMe ₂	NMe2	NMe2	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe2	NMe2	NMe2	NMe2	NMe2	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NIME
1.1936	1.1937	I-1938	1.199	1.190	1.1941	I-1942	I-1943	I-1944	I-1945	I-1946	I-1947	I-1948	I-1949	I-1950	I-1951	I-1952	I-1953	I-1954	I-1955	1 1056

Table 298

I-1957	NMe2	E	E	田	H	H	OMe	OMe	CH3OH	17	7	7	OMG		10 (110)
I-1958	NMe ₂	H	H	H	E	田	OMe	OMe	CH3OH		F	= =	OMG		-Cuch-Cimez
I-1959	NMe ₂	田	H	Н	Н	H	OMe	OMe	CH ₂ OH	E		=	OMs		-CH ₂ C=CM ₂
I.1960	NMe2	Ħ	H	Н	Н	Н	OMe	OMe	СН2ОН	Ξ	=	=	OMe		-CH ₂ C ₂ H ₂ -4-M ₂
I-1961	NMe ₂	H	Н	Н	H	Н	OMe	OMe	CH ₂ OH	Ξ	=	I	COOH		-CH-CH-CM-
1.1962	NMe2	H	Н	Н	Н	Н	OMe	OMe	СН2ОН	=	=	I	COOH		-(CH ₂)-CH-CM ₂
I.1963	NMe2	王	Н	Н	Η.	H	OMe	OMe.	1			=	COOH		- CH. CH = CCI.
I.1964	NMe2	H	H	H	Н	Н	OMe	OMe	1	H	Ħ	H	COOH	0	-CH°C≡CMe
I-1965	NMe ₂	田	H	田	Н	Н	ОМе	ОМе	СН2ОН	H	E	H	СООН	0	-CH2C6H4-4-Me
I-1966	NMe ₂	프	H	H	Н	Н	OMe	ОМе	CH ₂ OH	H	Ħ	Н	СН2ОН	0	-CH,CH=CMe,
I-1967	NMe ₂	H	H	H	H	Н	ОМе	OMe	CH ₂ OH	H	H	Н	CH ₂ OH	0	− (CH ₂) ₂ CH = CM ₆ ,
I-198	NMe ₂	피	H	H	H	Н	OMe	ОМе	CH ₂ OH	Н	H	Н	CH ₂ OH	0	-CH ₂ CH=CCl ₂
I-1969	NMe ₂	H	H	Н	Н	Н	ОМе	OMe	CH ₂ OH	Н	H	Н	СН2ОН	0	-CH,C≡CMe
I-1970	NMe2	H	Н	Н	H	Н	OMe	OMe	CH ₂ OH	H	Ξ	H	СН,ОН		-CH°C'H'-1-M°
I-1971	NMe2	H	Н	H	Н	Н	OMe	OMe	СН2ОН	Ξ	Ξ	Ξ	T. T.		-CH-CU-CM
I.1972	NMe ₂	Н	Н	Н	Н	H	OMe	OMe	СН2ОН	H	=	Ξ Ξ	· C	9	-(Cut) Cut-Cut
I-1973	NMe ₂	H	Н	Н	Н	Н	OMe	OMe	СН.ОН	Ħ	=	ı ı	. [5		CII CII CON
I.1974	NMe ₂	Н	Н	Н	Н	Н	OMe	OMe	CH ₂ OH	H	=	1 11	· (E		-CH ₂ C=CM ₂
I.1975	NMe2	Н	H	Н	Н	Н	ОМе	OMe	CH ₂ OH	Н	E	H	, E	0	-CH ₂ C ₂ H ₂ -A-M ₂
I.1976	NMe2	H	H	H	H	H	OMe	ОМе	Me	Н	H	Н	НО	0	-CH ₂ CH=CM ₆ ,
1.1977	NMez	H	Н	H	H	H	OMe	OMe	Me	Н	Н	Н	НО	0	- (CH ₂) ₂ CH = CM ₆ ,
									:					1	

Table 299

_																				
-CH°CH=CCI°	—CH2C≡CMe	-CH.C.H4-M.	AM F PILIDAMO -	-/CH3/CH1-CM	- (CH2)2CH - CMe2	-CH ₂ C=CM ₂	-CH ₂ C ₆ H ₄ -4-M ₆	-CH ₂ CH=CMe ₃	-(CH ₂) ₂ CH=CM ₆ ,	-CH2CH=CCI3	√ – CH₂Č≡CMe	-CH2C4H7-4-Me	-CH ₀ CH=CM ₀	-(CH ₂) ₂ CH = CM ₂	- CH ₂ CH=CCl ₂	-CH°C=CM°	awo-ozuo	-CH-CH-CM	- (CH ₂) ₂ CH = CM ₂	$-CH_2CH = CCI_2$
C	0	c					C	C	С	0	0	С								0
OH	HO	НО	OMe	OMo	OMe	OMe	OMs	СООН	СООН	H000	СООН	СООН	CHOH	CHOH	CHOOH	CHOH	CHOOH	H	, F	F
H	E	Ξ	Ξ	=	= =	I	H	H	H	H	H	H	I	Ξ	Ξ	Ξ	H	Ξ	Ξ	Н
	H	H	I	= =	=	=	H	H	H	H	田	H	H	=	=	=	F	=	H	Н
H	H	H	Ξ		=		H	田	H	田	H	Н	H	F	E	Ξ	H	Ξ	H	Н
Me	Me	Me	Me	Μ̈́	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me
OMe	ОМе	OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе
OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	ОМе	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe
Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н
H	н	Н	H	H	H	H	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	H
H	H	Н	Н	田	H	H	Н	H	Н	Н	H	H	Н	H	H	H	Н	Н	Н	H
Н	H	H	H	Н	Н	Н	H	H	H	H	Н	H	Н	Н	Н	H	Н	Н	Н	Н
H	H	H	H	H	Н	Н	H	王	王	F	H	田	H	田	Ξ	H	田	Ħ	H	H
NMe ₂	NMe2	NMe ₂	NMe2	NMe ₂	NMe ₂	NMe2	NMe2	NMez	NMe2	NMe2	NMe2	NMe2	NMe ₂	NMe ₂	NMe2	NMe ₂				
I-1978	I-1979	1.1980	I.1981	1.1982	1.1983	I-1984	I.1985	I-1986	I-1987	I.1988	I-1989	I-1990	I-1991	1.1992	I-1993	1.1994	I-1995	1.1996	1.1997	I-1998

Table 300

			· · ·				т —					· -				т.	· -		_	,
-CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH ₂ CH=CMe ₂	$-(CH_2)_2CH=CMe_2$	-CH2CH=CCl2	-CH ₂ C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH2)2CH = CMe2	- CH2CH=CCl2	- CH2C≡CMe	-CH2C6H4-4-Me	-CH ₂ CH=CMe ₂	-(CH2)2CH = CMe2	-CH ₂ CH=CCl ₂	−CH ₂ C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-(CH2)2CH = CMe2	-CH2CH=CCl2	−CH ₂ C≡CMe
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
伍	F	OH	- ОН	НО	НО	НО	OMs	OMs	OMs	OMs	OMs	СООН	СООН	СООН	СООН	СООН	CH2OH	CH ₂ OH	CH ₂ OH	СН2ОН
Н	Н	. H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Ħ	H	Ħ	H	Ħ	H	H	H
H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	H	H	H	H	H	H	H	H
H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	H	Н	Н	Н	Η	Н	Н
Me	Me	H	Н	Н	Н	Н	H	Н	H	Н	H	Н	Н	Н	Н	Н	H	H	H	H
OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	ОМе	ОМе	ОМе	9М0	ОМе	OMe	ОМе	OMe	ОМе	ОМе	OMe	OMe
OMe	OMe	ОМе	OMe	OMe	ОМе	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	ОМе
H	H	H	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
Ĥ	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
H	田	H	H	H	Н	H	H	Н	H	Н	H	H	Н	H	Н	H	Н	H	H	Н
H	田	王	田	王	H	H	H	H	H	H	H	H	Н	H	Н	H	H	H	H	Н
H	H	H	H	H	H	H	H	H	H	王	H	Н	Н	H	Н	Н	H	H	H	H
NMe2	NMe ₂	NMe ₂	NMe2	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe2	NMe ₂	NMe ₂	NMe ₂	NMe2	NMe2	NMe ₂	NMe ₂	NMez	$\overline{NMe_2}$
I-1999	1.2000	1.2001	I.2002	I-2003	1.204	1.2005	1.2006	1.2007	I-2008	I-2009	1.2010	I.2011	1.2012	1.2013	1.2014	I.2015	1.2016	1.2017	1.2018	I.2019

Table 301

		· · · ·	ī	r —	T	_	Ι				·	·	1	r	Γ		Ι	Γ	_	
-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH ₂ CH=CCl ₂	-CH₂C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	-(CH ₂) ₂ CH=CMe ₂	-CH ₂ CH=CCl ₂	-CH2C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCl2	-CH2C≡CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCl2	-CH2C≡CMe	$-CH_2C_6H_4-4-M_e$
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
СН2ОН	F	F	F	F	F	НО	Н0	ОН	НО	НО	sMO	sWO	OMs	OMs	OMs	СООН	СООН	СООН	НООЭ	нооэ
Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	H	H	Н	Н	Н	Н
Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	H	H	Н	Η	H	H
H	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	H	Н
Н	Н	Н	Н	Н	H	НО	Н0	НО	НО	ОН	НО	ОН	НО	Н0	ОН	ОН	НО	ОН	ОН	НО
OMe	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	ОМе	ОМе	ОМе	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe
OMe	OMe	·OMe	ОМе	ОМе	OMe	ОМе	ОМе	ОМе	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe
H	Н	H	H	H	Н	Œί	দ	[-	F	F	F	FI	Ľ	দ	দ	拓	দ	দ	단	H
H	H	H	H	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	H	H	H	Н	H	H	Н
H	Ξ	H	H	Н	H	Н	Н	H	H	Н	H	Н	Н	H	田	H	H	H	H	H
H	H	Н	Н	王	H	H	H	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
H	H	H	Н	H	Н	Ή	Н	Н	Н	H	Н	Н	Н	Н	H	Н	H	H	Н	Н
NMe ₂	NMe_2	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe ₂	NMe2	NMe2	NMe2	NMe ₂	NMe ₂	NMe2	NMe2	NMe2	NMe2	NMe ₂	NMe ₂	NMe ₂	NMe ₂
1-2020	1-2021	1.2022	I-2023	I.2024	I.2025	1.2026	I-2027	I-2028	1.2029	I-2030	I-2031	1.2032	I-2033	I-2034	I-2035	1-2036	I-2037	1.2038	I.2039	I-2040

Table 302

I-2041	NMe ₂	H	H	H	H	[E ₄	OMe	OMe	HO	Ξ	П	Ħ	пО"Но	(WO-no-no-
1.2042	NMe ₂	Н	H	H	H	ഥ	OMe	 	OH	=	= =		CHOU		- CH2CH = CMe2
I.2043	NMe ₂	H	Н	프	Н	ᅜ	OMe	╀	HO	=		= =	CHOOH		-CH2/2CH -CIME2
I-2044	NMe ₂	三	H	H	Н	F	OMe	OMe	HO	H	E		CH ₂ OH		-CH°C=CM
1.2045	NMe ₂	H	Н	Н	Н	F	OMe	OMe	ЮН	二	=	Ξ	CH ₂ OH		-CH ₂ C ₂ H -4-M
I-2046	NMe2	H	Н	Н	H	F	OMe	OMe	НО	H			T. E.		-CH-CH-CM-
1.2047	NMe ₂	H	Н	H	Н	伍	OMe	OMe	HO	=		=	- [<u>-</u>		- (CH ₂), CH - CM
I-2048	NMe ₂	田	H	H	Н	Œ	OMe	OMe	0H	H	H	E	4 E		-CH,CH=CCI
1.2049	NMe2	H	H	Ħ	田	দ	ОМе	OMe	Н0	H	H	H	[T	0	— CH,C≡CM°
1.2050	NMe ₂	三	Н	H	H	댼	OMe	OMe	НО	H	H	H	Ţ	C	-CH°C°H'4-M°
I.2051	Н000	田	Н	H	H	Н	OMe	OMe	НО	H	H	H	НО	0	-(CH ₂) ₂ CH=CM ₂
1.2052	Н000	H	H	H	H	Н	ОМе	OMe	ОН	Н	H	H	НО	0	- CH ₂ CH = CCl ₂
I-2053	Н000	H	H	H	Н	Н	ОМе	OMe	НО	H	E	E	НО	0	-CH _o C=CM _o
I-2054	Н000	H	H	Н	H	Н	OMe	OMe	НО	Ξ	I	Ξ	OMe	. 0	AND-DZID
I-2055	Н000	Н	Н	Н	Н	Н	OMe	OMe	НО	H	Ħ	ıπ	OMe		-/CH-)-CH-CM
I.2056	Н000	Н	H	Н	Н	Н	OMe	OMe	ОН	Ħ	=	= =	OMe		CH2/2CH - CMe2
1.2057	H000	H	Н	Н.	Н	H	OMe	OMe	ОН	7		1 2	OM		- CH2CH = CCI2
1.2058	Н000	Н	Н	Н	Н	H	OMe	OMe	HO	I	=	= =	OMS		-CH2C=CMe
I.2059	Н000	H	Н	H	Ħ	Н	OMe	OMe	НО	Ξ	Ħ	i i	DOOD I		CH2C6H4-4-Me
I-2060	Н000	Н	H	Н	Н	Н	OMe	ОМе	НО	H	H	H	COOH		- (CH ₂), CH = CM ₂
1-2061	Н000	H	H	Ŧ	Н	H	OMe	ОМе	Н0	Н	H	Н	Н000	0	- CH ₂ CH = CCl ₃
														,1	7100 11071

Table 303

Me	1 – Me	, Me	J. W.	Zalvicz 100		IME I Mo	Mo	Me	ָבָּבְּיִבְּיִבְּיִבְּיִבְּיִבְּיִבְּיִבְּי	Mo M	J. W.	al Me	/Me2	CIMIe2	200	a k	Mo	Z Wes		
– CH,C≡CMe	-CH ₂ C ₆ H ₄ -4-M _P	-CH ₂ CH=CM _P	ZWJ=HJ°(°HJ)-		DO-HOZIO	-CH°C'H'-1-M°	- CH ₂ CH=CM ₆₃	- (CH ₃) ₃ CH = CM ₂	-CH ₂ CH=CCl ₂	– CH°C≡CMe	-CHoCon -4-We	-CH CH -CM	-110 (110) -		-CH2CH-CCI2	-CH°CH:1-M°	-CHoCH=CMgg	-(CH ₂) ₂ CH=CM ₂	-CH2CH=CCI	1107110
C	0	0	0				0	0		0					0		0	0	0	,
COOH	H000	СН2ОН	CH ₂ OH	CHOH	CHOOH	CH ₂ OH	F	Ţ	ᄕ	, E	Ĺ.) HO		TIO TIO	HO	HO	OMs	OMs	OMs	
H	H	H	Ή	Ξ	Ξ Ξ	Ξ	Н	H	H	H	Ξ	= =	= =	= =	I II	=	=	H	H	
H	E	E	H	I	=	E	E	H	H	E	I	=	=	= =	=		H	H	H	
H	H	田	田	1 =	=	E	E	H	田	H	=	=		=	Ξ.	H	H	Н	H	
HO	НО	НО	НО	OH	HO	НО	HO	HO	НО	HO	НО	COOH	COOH	COOH	H000	H000	Н000	Н000	H000	
ОМе	ОМе	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	
OMe	ОМе	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	
Н	Н	Н	Н	H	H	Н	Н	Н	Н	Н	Н	H	H	H	H	Н	Н	Н	H	
Н	Н	Н	H	Н	Н	Н	Н	Н	H	Н	Н	H	H	H	н	Н	Н	Н	H	1
Н	H	Н	Н	Н	Н	H	Н	H	Н	Н	Н	Н	Н	H	Н	Н	Н	H	H	1
H	H	Н	H	Н	Н	H	Н	Н	Н	. Ж	H	Н	H	Н	Н	Н	H	H	H	;
Н	H	Н	Н	H	H	H	H	H	H	H	H	Н	Н	Н	Н	Н	Н	H	Н	;
Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	H000	Н000	Н000	Н000	Н000	Н000	000Н	СООН	Н000	11000
1.2062	1-2063	I-2064	1.2065	1.2066	1.2067	1.2068	1.2069	1.2070	1.2071	1.2072	I-2073	I.2074	1.2075	1.2076	1.2077	1.2078	1.2079	I-2080	I.2081	1 0000

Table 304

		•																			
-CH ₂ C ₆ H ₄ -4-M _e	-CH ₂ CH=CM _P ,	-(CH ₂) ₂ CH=CM ₆ ,	-CH ₂ CH=CCl ₂	- ND=D-HD-	Onic=Cine	-CH-CU-CM	-(CH ₃) ₂ CH = CM ₂ .	-CH2CH=CCI3	- CH,C≡CMe	-CH2CeH1-4-Me	-CH ₂ CH=CM ₆₃	-(CH ₂) _C H = CM ₂		CHICH-CCII	-CH2C=CMe	-CH ₂ C ₆ H ₄ -4-Me	-CH2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CCI3	-CH,C≡CMe	-CH ₂ C ₆ H ₄ -4-Me
0	0	0	0					0	0	C	C)	9	0	0	0	0
OMs	H000	СООН	COOH	HOOJ	COOH	CHOOL	CH ₂ OH	CH ₂ OH	CH ₂ OH	СН2ОН	댠	[±	1 5	i [5 4 F	¥1 ;	ОН	OH	НО	НО	НО
Н	H	田	Ξ	Ξ	7	I	H	Н	Н	Н	H	Ħ	1 1	= =	= =	디 :	ij	Н	Н	Н	H
H	H	H	H	=	=	=	H	H	H	H	H	田	=	=	= =	= =	F	H	Н	Н	Н
H	田	H	H	Ξ	=	H	H	Н	Н	H	H	H	Ħ	: =	1 1	= =	ı.	H	Н	H	Н
Н000	000	НООЭ	СООН	COOH	COOH	C00H	Н000	Н000	СООН	H000	СООН	СООН	COOH	COOH	COOH	CH-OII	CHIOL	CH ₂ OH	CH ₂ OH	CH ₂ OH	СН₂ОН
OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	ОМе	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	SW O	Olvie	OMe	OMe	ОМе	OMe
OMe	OMe	OMe	·OMe	ÓМе	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OM6	OIME	OMe	OMe	OMe	OMe
耳	H	H	Н	Н	H	H	Н	Н	Н	Н	Н	H	H	H	Ξ	Ξ	:	F	H	H	H
H	田	王	H	H	H	н	H	H	Ħ	Н	Н	Н	Н	H	H	H	:	H	H	H	H
H	田	田	H	H	H	Н	Н	H	H	Н	Н	Н	Н	H	H	Ħ	:	F	H	H	H
E	H	H	田	Н	Н	Н	H	H	H	H	H	Н	Н	Н	Н	H	1	E	H	H	H
E	픠	三	H	Н	Н	F	H	H	田	田	田	H	H	H	Н	H	=	디	H	H	H
H000	Н002	Н000	Н000	Н000	Н000	Н000	Н002	Н000	Н002	H000	Н000	СООН	Н000	Н000	Н000	Н000	HOOD	noon	СООН	Н000	Н000
1.2083	1.2084	I-2085	I-2086	I.2087	1.2088	I.2089	1.2090	1.2091	I-2092	I-2093	1.2094	1.2095	1.2096	I-2097	I-2098	I.2099	1.9100	0017	1.2101	I.2102	I:2103

Table 305

_					_,		.,													
-CH2CH=CMe	- (CH ₂) ₂ CH = CM _P	-CH,CH=CCI,	-CH2C≡CMe	-CH°C,H'4-M°	-CH2Chin 4 IME	- (CH ₉) ₂ CH = CM ₉ .	-CH2CH=CCI	-CH ₂ C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	(CH ₂) ₂ CH=CM ₆ ;	-CH ₂ CH=CCl ₃	-CH ₂ C=CM ₂	-CH-C-U-C-M-	- CH. CH. CW.		- CH, CH = CCI,	-CH.C=CM.	- CH, C, H, - A - M	-CH2CH=CMe2
0	0	0	0	0 0		0	0	0	0	0	0	0	C							0
OMs	OMs	OMs	OMs	OMe	COOH	COOH	H000	СООН	СООН	CH ₂ OH	CH ₂ OH	СН2ОН	СН•ОН	CHOH	T. T.	4 5	- C	Ŀ	Ŀ	НО
H	H	H	H	I	=	H	H	H	Н	Н	Н	H	H	I	: =	Ħ	Œ	H	Ξ	H
H	H	H	E	Ξ	=	H	H	Н	H	H	H	H	H	Ħ	=	=	H	H	H	Н
H	H	H	Ξ	Ξ	Ξ	H	H	H	Н	Н	Н	Н	H	Н	Ξ	Ξ	H	H	Н	Н
CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	СН2ОН	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	СН2ОН	СН,ОН	CH ₂ OH	CH ₂ OH	CH ₂ OH	CH ₂ OH	Me
ОМе	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	ОМе	ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe
ОМе	ОМе	OMe	ОМе	OMe	OMe	ОМе	ОМе	ОМе	OMe	ОМе	ОМе	OMe	OMe	OMe	ОМе	OMe	OMe	ОМе	OMe	OMe
H	Ħ	H	Ħ	H	田	Н	H	H	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н
H	田	Ŧ	田	H	H	H	H	H	F	Ħ	H	H	H	Н	Н	H	Н	Н	Н	Н
H	田	H	Ħ	Н	H	. Н	Ħ	F	H	H	H	Ħ	H	H	Н	Н	Н	Н	Н	H
H	H	H	田	H	Н	Н	王	H	田	H	H	H	Н	Н	Н	Н	Н	Н	Н	H
田	三	王	王	H	H	H	耳	田	田	E	田	国	Ξ	H	H	H	田	프	Ħ	H
НООО	Н002	Н000	Н000	H000	Н000	Н000	Н000	СООН	Н000	Н000	Н000	Н000	C00H	Н000	Н000	Н000	Н000-	Н000	Н000	Н000
1-2104	1-2105	1.2106	1.2107	1.2108	I-2109	1.2110	I-2111	1.2112	I.2113	I.2114	I-2115	I-2116	I.2117	I.2118	I-2119	I-2120	1.2121	I-2122	I-2123	1.2124

Table 306

<u>,</u>	,	·,					· ·													
- (CH ₂) ₂ CH=CMe ₂	- CH ₂ CH = CCl ₂	– CH ₂ C≡CMe	-CH,CH,-4-M	-CH,CH=CMe.	-(CH ₃) ₃ CH=CM ₆	-CH ₂ CH=CCI ₃	-CH2C≡CMe	-CH2C6H4-4-Me	-CH ₂ CH=CM ₆ ,	-(CH ₂) ₂ CH=CM ₆ ,	-CH ₂ CH=CC) ₂	—CH°C≡CMa	-CH ₀ C ₀ H ₁ -A-M ₀	WO HUGHU -	-(CH ₀) ₀ CH = CM ₀	-CH ₂ CH=CCl ₃	—CH₃C≡CMe	-CH ₂ C ₂ H ₂ -A-M ₂	-CH,CH=CMe.	-(CH ₂) ₂ CH=CMe ₂
0	0	0	c) c	C	0	0	0	0	0	C			0	0	C	C		0
HO	HO	НО	НО	OMs	OMs	OMs	OMs	OMs	Н000	СООН	СООН	COOH	COOH	CHOH	CHOOH	СН-ОН	СН2ОН	СН°ОН	Ŀ	F
H	Н	H	. #	I	E	H	Н	H	H	H	H	Ħ	Н	Ξ	H	H	H	Н	Ξ	Н
H	H	H	H	Ξ	H	H	H	H	H	H	Ħ	E	I	Ħ	Ħ	H	Ħ	H	E	H
Н	H	H	H	E	E	H	H	H	田	H	H	H	E	=	E	H	Ħ	H	H	Н
Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me
ОМе	ОМе	ОМе	OMe	OMe	OMe	OMe	ОМе	ОМе	OMe	ОМе	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	ОМе	OMe	OMe
OMe	OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	οМе	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	ОМе
H	H	王	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н
H	F	Ħ	Н	H	Н	Н	H	田	H	H	Н	H	Н	Н	H	Н	Н	Н	Н	H
H	Ħ	田	Н	H	H	H	H	H	Н	Н	Н	Н	Н	Η	Н	Н	Н	Н	Н	H
H	田	三	H	H	田	三	王	H	H	H	H	H	Н	Н	Н	Н	H	H	Н	Н
国	포	王	H	F	王	F	王	田	田	H	田	王	H	Н	E	田	H	王	田	H
СООН	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	СООН	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000	Н000
1.2125	1.2126	1.2127	I-2128	1.2129	1.2130	1.2131	I-2132	1.2133	I.2134	1.2135	1.2136	1.2137	I-2138	1.2139	I-2140	1.2141	1.2142	I.2143	I-2144	I-2145

Table 307

_									•													٠		
110 110	-CH2CH=CCl2	−CH2C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe	-(MJ=HJ°(°HJ)-		CH2CH = CCI2	-CH2C≡CMe	-CH2C6H4-4-Me	-CH2CH=CMe2	$-(CH_2)_2CH = CMe_2$	-CH2CH=CCl2	-CH2C≡CMe	-01.0 u -4	OIIZO6114 - 4 - Mie	- CH2CH = CMe2	-(CH2)2CH = CMe2	-CH2CH=CCl2	-CH ₂ C≡CMe	-CH°C,H'1-M°	3W # \$11907110	CH2CH = CIMe2	- (CH2)2CH = CMe2	$-CH_2CH = CCI_2$
				0	C							0	0	0				0	0	C				
E	£4 [-		Œ	НО	НО	# E		HO	100	OMS	OIVIS	OMs	OMs	OMe	71000	COOL	COOH	COOH	C00H	COOH	CH.OU	Out Ou	OHEOH OHEOH	CH2OH
-				Н	H	=					= :	티	Н	H	1	= =	<u></u>	F	Н	Н	Ħ	1 1	:	
=			티	Н	H	Ξ				1 2		듸	Н	Н	F	: =	<u>:</u>	티	田	H	Ħ	1 1	= =	E
=		1 :		H	H	=	=		= =	= =	:	듸	Н	H	Ħ				国	H	Ξ	Ξ.		
Me	M M	3111	Me	Н	H	H	н	= =	=		. :	티	H	H	П	= =	= =	-	H	Н	Н	н		
OMe	OMe	2110	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe		OIMe	OMe	ОМе	OMe	OMe	OM.	OME	OMe.	OMe	OMe	OMe	OMe	OIME
OMe	OMe		OIMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	J. C.	OIME	OMe	OMe	OMe	OMe	OMe		OMe	ОМе	OMe	OMe	OMo	21112
H	H			티	H	H	H	三	Ħ	H	ם		H	Н	Н	Н	1 1	:	F	H	H	Н	π	
E	H	=		田	H	H	Н	二	E	H	Ħ		H	Н	H	Н	Ħ	: :	F	H	Н	Н	Н	
Ξ	H	Ħ		H	H	Н	Н	H	H	H	Ħ		H	Н	Н	Н	H	=	=	Н	Н	.H	Н	
H	H	I			H	H	H	H	H	Н	Н		Ξ	H	Н	Н	Н	ם	r l	H	Н	Н	H	
H	H	ıΞ	:	囙	H	H	H	H	Н	Н	Н			王	Н	H	Н	l l	=	H	Н	H	H	
Н000	Н000	COOH	11000	COOH	H000	Н000	Н000	Н002	Н000	Н000	H000	***************************************	C00H	H000	H000	H000	H000	CODH	0001	H000	Н000	Н000	Н000	
1.2146	1.2147	I-2148	1 0140	1-2149	I-2150	1.2151	1.2152	I-2153	I-2154	I-2155	1.2156	1 0 1 5 2	1.215/	I-2158	I.2159	I-2160	I.2161	1.2162		1-2163	1.2164	I.2165	1.2166	

Table 308

НН
H
H
H
H
Н
H
H
H
H
田
H
H
H
H
H
H
H
H
田
H F

Table 309

									·											
-CH.C.H4-M.	-CH,CH=CMp,	-(CH ₂) ₂ CH=CM ₂	Tawo Horizon		- CH2C=CIMe	-CH2C6H4-4-Me	-(CH ₂) ₂ CH=CMe ₂	-CH ₂ CH=CCl ₃	-CH ₂ C=CM ₂	-CH ₂ C ₂ H ₂ -4-M ₂	-(CHallette Function	-(CH2)-CH-CME	- (CII.) CII-CIVE	-(CH2)2CH = CMe2	(CH2)2CH=CMe2	-(CH2)2CH=CMe2	-CH2CH=CMe2		-CH2CH=CMe2	-CH2C6H6
С		0						С	C											0
СООН	CH ₂ OH	СН2ОН	CHOH	CHOD	CHIZOII	T H	, G	Ţ.	면	, E	OMe	OMe	OMe	OMG	OMC	CIMIS	H 0		21117	OH OH
H	H	E	Ξ	= =	1 1	Ξ	H	H	H	Ξ	=	=	= =	1 1	= =	1 1		=		H
H	E	H	=	=	= =	Ī	E	H	H	H	Ħ	Ħ	Ξ Ξ	= =	= =	= =	1 1	1		H
H	H	H	H	I	H	H	H	Н	H	Н	H	H	, c	H	=	7	=	1 1	# #	H
0Н	Н0	НО	НО	НО	OH	HO	НО	НО	НО	НО	H	H	H	I	H	OMe	OMs	OMe	OMe	OH
OMe	ОМе	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OEt
ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OM o	OMe	OMe
F	F	Į.	<u>.</u>	[±,	Œ	7	स	ഥ	F	F	Н	Н	H	H	H	H	H	Ξ	=	H
Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	H	H	H	H	H	H	H	H
Н	Н	H	Н	Η	Н	H	Н	H	Н	Н	Н	Н	Н	H	H	H	Н	H	H	H
H	H	H	H	Н	H	Н	H	H	Н	Н	Н	Н	Н	Н	Н	H	Н	H	H	H
田	H	耳	H	H	Н	Н	H	H	H	Н	Н	NO ₂	Н	Н	CN	Н	Н	Н	H	Н
НООО	Н000	Н000	Н000	СООН	Н000	СООН	Н000	СООН	СООН	СООН	NO2	OMs	OMs	CN	OMs	ОН	НО	H0	ОН	ЮН
1.2188	1.2189	I.2190	I-2191	I.2192	1.2193	I.2194	I-2195	I-2196	I.2197	1.2198	1.2199	1.2200	I-2201	1.2202	I-2203	I.2204	I.2205	1.2206	I-2207	1.2208

Table 310

	T	T	T	Γ			T		Τ	T	Т	Ť	Ť	Т	T	Τ	T	Τ.	T-	T
-CH,CH=CMe,	-CH ₂ C ₆ H ₆	-CH ₂ CH=CMe ₂	-CH2C6H6	- CH,CH=CMe,	-CH,CH=CMe,	-CH ₂ C ₆ H ₈	-CH ₂ CH=CMe ₂	-CH2C6H6	- CH2CH=CMe2	-CH2C6H6	-CH ₂ CH=CM _e ,	- CH ₂ C ₆ H ₈	-CH ₂ CH=CM ₂	-CH ₀ C ₀ H	-CHoCH=CMo	-CH ₀ C ₀ H.	-CH ₂ CH=CM ₆₃	-CH°C'H.	-CH ₂ CH=CM ₂₃	-CH2C6H6
0	0	0	0	С	C	C	0	0	0	0	0	C	C	C	C	0	0	C	C	0
NH2	HO	NH2	NH2	НО	NH°	NH2	HO	HO	NH ₂	NH2	HO	НО	NH,	NH,	HO	HO	NH,	NH,	HO	OH
H	H	H	н	H	E	H	H	H	H	H	H	H	H	Ξ	I	Ξ	H	Ħ	Ξ	Н
H	Н	H	H	Ξ	H	E	Н	Н	Н	Н	Н	H	H	Н	H	H	H	H	H	Н
H	H	Н	Н	Н	H	H	Н	Н	Н	Н	H	Н	H	H	H	H	H	Н	H	Н
НО	Н	Н	Н	NH2	NH2	NH2	НО	НО	НО	ОН	OMs	OMs	OMs	OMs	НО	НО	НО	НО	Н	Н
OEt	Me	Me	Me	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OEt	OEt	OEt	OEt	Me	Me
ОМе	Me	Me	Me	ОМе	ОМе	ОМе	OMe	OMe	ОМе	OMe	OMe	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	Me	Me
Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	H	Н	H	H	Н	H
Н	Н	Н	H	Н	H	Н	Н	Н	Н	Н	Η	Н	Н	Н	Н	Н	Н	Н	Н	H
H	H	H	Ħ	H	H	H	H	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
표	H	H	H	H	Ħ	H	H	H	H	H	H	H	H	Н	H	Н	Н	Н	Н	Н
H	H	F	H	王	H	H	H	H	H	H	H	H	H	H	Н	Н	H	H	H	H
НО	НО	ЮН	ОН	ЮН	НО	НО	НО	ЮН	ЮН	НО	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs
I.2209	1.2210	1.2211	1.2212	I.2213	1.2214	1.2215	1.2216	1.2217	1.2218	1.2219	I.2220	1.2221	1.2222	1.2223	1.2224	1.2225	1.2226	1.2227	I-2228	I-2229

Table 311

-CH2CH=CMe2	-CH2C6H6	$-CH_2CH=CMe_2$	$-CH_2CH = CMe_2$	-CH2C6H6	- CH ₂ CH=CMe ₂	$-\mathrm{CH_2C_6H_6}$	$-CH_2CH=CMe_2$	$-\mathrm{CH_2C_6H_6}$	-CH2CH=CMe2	$-\mathrm{CH_2C_6H_6}$	$-CH_2CH=CMe_2$	$-\mathrm{CH_2C_6H_6}$	-CH ₂ CH=CMe ₂	-CH2C6H8	$-CH_2CH = CMe_2$	-CH2C6H8	-CH2CH=CMe2	-CH2C6H6	$-CH_2CH = CMe_2$	$-\mathrm{CH_2C_6H_6}$
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NH2	$ m NH_2$	ОН	NH_2	NH_2	ОН	Н0	NH_2	NH_2	ОН	НО	NH_2	NH_2	НО	ОН	NH_2	NH_2	ОН	НО	NH_2	NH2
H	H	H	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	H	H	Н
H	H	Н	Н	Н	Н	Н	Н	Н	Н	H	H	H	H	H	H	Ħ	Н	Н	Н	Н
Н	Н	Н	Н	H	Н	Н	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
Н	Н	NH2	NH2	NH2	ОН	НО	НО	ОН	OMs	OMs	OMs	OMs	ОН	НО	ОН	ОН	Н	Н	Н	Н
Me	Me	ОМе	OMe	ОМе	ОМе	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	OEt	OEt	OEt	OEt	Me	Me	Me	Me
Me	Me	ОМе	OMe	ОМе	ОМе	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	OMe	Me	Me	Me	Me
H	田	H	H	Н	Н	H	Н	H	Н	H	Н	H	H	H	H	H	Н	Н	Н	Н
Н	H	Н	Н	H	Н	H	H	H	Н	H	H	H	Н	H	Н	Н	H	Н	Н	Н
Н	Н	H	H	Н	Н	. Н	H	Н	Н	Н	H	Н	Н	Н	H	Н	Н	Н	H	H
H	H	H	H	H	H	H	H	H	H	Н	H	Н	H	Н	Н	Н	Н	Н	H	Н
Н	Н	Н	Н	Н	Н	Н	Н	H	Н	H	H	H	Ħ	H	Н	H	H	H	H	H
OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	OMs	CF3	CF3	CF_3	CF_3	CF3	CF3	CF3	CF_3	CF3	CF_3	CF_3	CF3
1.2230	1.2231	I.2232	I-2233	I-2234	1.2235	1.2236	1.2237	1.2238	I.2239	I.2240	1.2241	1.2242	I-2243	I.2244	1.2245	1.2246	1.2247	1.2248	1.2249	I.2250

Table 312

<u> </u>																				
-CH ₂ CH=CMe ₂	-CH2C6H6	$-CH_2CH = CMe_2$	-CH2C6H6	$-CH_2CH = CMe_2$	-CH2C6H6	$-CH_2CH = CMe_2$	-CH2C6H6	$-CH_2CH = CMe_2$	-CH2C6H6	- CH ₂ CH = CMe ₂	-CH2C6H6	-CH ₂ CH=CMe ₂	-CH2C6H6	-CH ₂ CH=CMe ₂	-CH2C6H6	$-CH_2CH = CMe_2$	-CH2C6Hs	-CH ₂ CH=CMe ₂	-CH2C6H6	$-CH_2CH = CMe_2$
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ОН.	Н0	NH2	NH2	НО	HO	NH2	NH2	НО	НО	NH2	NH2	HO	HO	NH2	NH2	НО	НО	NH2	NH2	НО
Н	Н	H	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	н	Н
Н	Н	Н	Н	Н	·H	Н	Н	H	Η	Н	Н	H	Н	H	Н	H	Н	Н	Н	H
H	Н	Н	H	Н	Н	Н	Н	H	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
NH2	NH ₂	NH_2	NH2	ОН	0Н	ОН	ОН	OMs	OMs	ОМв	OMs	ОН	ОН	0Н	ОН	Н	Н	Н	Н	NH_2
OMe	OMe	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	ОМе	OMe	OMe	OEt	ÓEt	OEt	OEt	Me	Me	Me	Me	ОМе
OMe	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	OMe	OMe	ОМе.	OMe	OMe	ОМе	ОМе	OMe	Me	Me	Me	Me	OMe
Н	H	Н	Н	Ĥ	H	Н	Н	H	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	H
H	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H
Н	H	Н	H	Н	H	H	H	H	H	H	H	H	Ħ	H	田	Н	H	H	H	H
H	H	王	田	H	H	H	H	H	H	H	H	H	H	田	Ħ	Ħ	田	H	Н	H
H	H	H	H	H	H	H	Н	Н	H	H	H	H	H	H	H	H	H	H	H	H
CF_3	CF3	CF ₃	CF_3	CF_3	CF_3	CF3	CF3	NH2	NH2	NH2	NH2	NH2	NH2	NH ₂	NH2	NH2	NH2	NH2	NH2	NH2
1-2251	1.2252	1.2253	1.2254	1.2255	1.2256	1.2257	1.2258	1.2259	I.2260	I.2261	I.2262	1.2263	1.2264	1.2265	1.2266	I-2267	1.2268	I.2269	I.2270	I-2271

Table 313

1-2272	NH ₂	Ξ	H	Н	Н	H	ОМе	OMe	NH2	Н	H	H	НО	0	- CH ₂ C ₆ H ₆
1-2273	NH2	王	王	H	H	H	ОМе	ОМе	NH2	Н	H	Н	NH2	0	-CH2CH=CMe2
1-2274	NH ₂	Ξ	田	H	H	H	OMe	ОМе	NH_2	Н	Н	Н	NH ₂	0	-CH2C6H6
1-2275	NH2	王	H	H	H	H	ОМе	ОМе	НО	Н	H	H	НО	0	-CH ₂ CH=CMe ₂
1.2276	NH2	H	· H	H	H	H	OMe	OMe	НО	Н	H	Н	НО	0	- CH2C6H8
1.2277	NH2	H	H	Н	Н	Н	OMe	ОМе	НО	H	H	Н	NH2	0	-CH ₂ CH=CMe ₂
1.2278	NH2	H	H	Н	H	H	OMe	ОМе	ОН	Н	H	Н	NH2	0	-CH2C6H6
1.2279	-NHCH2CH=CMe2	田	伍	田	H	Me	Me	Me	Н	Н	Н	Н	OMe	HN	-CH2CH=CMe2
1.2280	-NHCH2CH=CMe2	H	Œ	H	H	Me	Me	Me	Н	Н	Н	Н	OMe	HN	·(CH ₂) ₂ CHMe ₂
1.2281	-NHCH2CH=CMe2	田	Œ	H	H	Me	Me	Me	Н	Н	Н	Н	OMe	NMe	Me
I.2282	-NHCH2CH=CMe2	H	Œ	H	H	Me	Me	Me	Н	Н	H	Н	OMe	0	-CH2CH=CMe2
I-2283	-NHCH2CH=CMe2	H	[Fi	H	H	Me	Me	Me	Н	H	Н	Н	OMe	0	-CH2CH=CCl2
I-2284	·NHCH2CH=CMe2	H	压	田	田	Me	Me	Me	Н	Н	Н	F	Н	HN	-CH2CH=CMe2
1.2285	-NHCH2CH=CMe2	H	Œ,	H	H	Me	Me	Me	Н	Н	Н	F	Н	HN	·(CH ₂) ₂ CHMe ₂
I.2286	·NHCH2CH=CMe2	H	Œ	田	Н	Me	Me	Me	Н	Н	Н	F	Н	NMe	Me
I.2287	-NHCH2CH=CMe2	H	ᄕ	田	H	Me	Me	Me	Н	Н	H	ᄺ	Н	0	-CH2CH=CMe2
1.2288	-NHCH2CH=CMe2	H	压	田	н	Me	Me	Me	Н	H	H	F	Н	0	-CH2CH=CCl2
I-2289	·NHCH2CH=CMe2	Ξ	F	H	н	Me	Me	Me	Н	Н	Ħ	H	OEt	HN	·CH2CH=CMe2
I-2290	-NHCH2CH=CMe2	H	Œ	H	H	Me	Me	Me	H	H	Н	Н	OEt	HN	·(CH ₂) ₂ CHMe ₂
I-2291	-NHCH2CH=CMe2	H	드	H	田	Me	Me	Me	Н	Н	H	Н	OEt	NMe	Me
1.2292	-NHCH2CH=CMe2	H	[Z	H	H	Me	Me	Me	Н	Н	Н	H	OEt	0	-CH2CH=CMe2

Table 314

1.2293	-NHCH2CH=CMe2	王	드	田	H	Me	Me	Me	Н	H	H	E	OEt	0	-CH,CH=CCI,
1.2294	-NHCH2CH=CMe2	H	Œ	H	H	Н	Me	ОМе	НО	Н	H	H	OMe	HN	-CH2CH=CMe2
1.2295	·NHCH2CH=CMe2	王	伍	田	H	Н	Me	ОМе	OH	Н	H	H	OMe	HN	-(CH2),CHMe2
1.2296	·NHCH2CH=CMe2	王	ഥ	H	H	Н	Me	ОМе	HO	Н	·H	田	OMe	NMe	Ме
1.2297	-NHCH2CH=CMe2	H	됴	Ξ	Н	H	Me	OMe	НО	H	H	Ξ	OMe	С	CH"CH=CMo.
1.2298	-NHCH2CH=CMe2	Ή	F	田	Н	Н	Me	OMe	HO	H	E	H	OMe	C	CH ₂ CH=CC ₁
1.2299	·NHCH2CH=CMe2	H	Œ	H	H	Н	Me	OMe	ОН	Ħ	田田	Ē	H	HN	·CH°CH=CMe
I.2300	-NHCH2CH=CMe2	H	Œ	H	Ξ	H	Me	OMe	0H	Н	E	ᅜ	Н	NH	-(CH2)2CHM62
I.2301	·NHCH2CH=CMe2	田	됴	田	H	H	Me	OMe	0H	Н	Н	뚀	H	NMe	Me
I.2302	·NHCH2CH=CMe2	H	[Zi	H	田	H	Me	OMe	0H	Н	H	Œ	H	0	-CH2CH=CMe2
1-2303	-NHCH2CH=CMe2	H	Œ	H	H	H	Me	ОМе	0H	Н	Н	দ	H	0	-CH2CH=CCl3
1.2304	-NHCH2CH=CMe2	王	(F.	H	田	Н	Me	OMe	0H	Н	Н	H	OEt	HN	-CH2CH=CMe3
I:2305	-NHCH2CH=CMe2	王	[Z4	H	H	Н	Me	OMe	Н0	Н	Н	H	OEt	HN	-(CH ₂) ₂ CHMe ₃
1.2306	·NHCH2CH=CMe2	田	ᄕᅩ	田	H	H	Me	OMe	НО	Н	H	H	OEt	NMe	Me
1.2307	-NHCH2CH=CMe2	王	[E.	H	H	H	Me	ОМе	ОН	Н	H	Н	OEt	С	.CH,CH=CMo.
1.2308	·NHCH2CH=CMe2	H	ഥ	Н	H	H	Me	ОМе	НО	Н	Н	Н	OEt	C	CH ₂ CH=CC ₁
I-2309	·NHCH2CH=CMe2	王	드	Н	H	Me	Н	Me	НО	Н	Н	H	OMe	HN	CH ₂ CH=CM ₂
I-2330	·NHCH2CH=CMe2	H	Œ	H	H	Me	Н	Me	НО	Н	Н	H	OMe	HZ	-(CH ₃) ₂ CHMe ₃
I-2331	-NHCH2CH=CMe2	田	Œ,	H	H	Me	H	Me	ЮН	Н	Н	Н	OMe	NMe	Me
I-2332	-NHCH2CH=CMe2	H	Œ	田	田	Me	Н	Me	НО	Н	H	Н	OMe	0	-CH2CH=CMe2
I-2333	·NHCH2CH=CMe2	H	Œ	田	H	Me	H	Me	НО	Н	Н	Н	OMe	0	-CH2CH=CCl2

Table 315

				T -	Т	T	ι —				Γ	·-	ī		Г	T-	γ	Τ-	Ι	Т
·CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	-CH2CH=CMe2	·CH2CH=CCl2	-CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	-CH2CH=CMe2	.CH2CH=CCl2	-CH2CH=CMe2	·(CH2)2CHMe2	Me	-CH2CH=CMe2	·CH2CH=CCl2	-CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	-CH2CH=CMe2	-CH2CH=CCl2	-CH2CH=CMe2
NH	NH	NMe	0	0	NH	HN	NMe	0	0	HN	HN	NMe	0	0	HN	HN	NMe	0	0	NH
H	Н	H	Н	Н.	OEt	OEt	OEt	OEt	OEt	OMe	OMe	OMe	OMe	OMe	H	H	Н	н	Н	OEt
딾	দ	F	F	ᄄ	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	দ	দ	[Ŧı	F	F	Н
H	H	Н	Н	Н	Η	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н
Н	Н	Н	Н	Н	Н	Н	Н	Н	. Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н
НО	ОН	ЮН	НО	НО	НО	НО	НО	НО	НО	Me	Me	Me	Me	Me						
Me	Me	Me	Me	Me.	Me	Me	Me	Me	Me	Ме	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me
H	H	H	Н	н	Н	Н	H	Н	Н	Me	Me	Me	Me	Me						
Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	H	H	H	H	Н	Н	н	н	Н	H	Н
田	H	田	H	H	н	田	H	H	H	H	H	H	H	H	H	H	H	H	H	H
H	H	H	H	H	H	H	田	H	H	H	H	H	H	H	H	H	Н	H	H	Н
[<u>-</u> -1	币	[+	뜨	ĹΤ	E,	দ	Œ	ഥ	F	F	F	F	F	ഥ	댼	ഥ	伍	伍	দ	দ
H	田	Ξ	H	H	H	Н	H	H	H	H	Н	Ή	H	Н	H	H	H	H	H	H
·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2
1-2334	1.2335	1.2336	1.2337	I-2338	I.2339	1.2340	1.2341	I.2342	I-2343	I.2344	I-2345	1.2346	I-2347	I-2348	1.2349	I-2350	I-2351	I-2352	1.2353	I-2354

Table 316

		T.	T	T			Т	T	T	T	T	7.	T	T^-		T	Т	\top	\top	\top
-(CH3)0CHMes	Me	-CH ₂ CH=CM ₆ ,	יטט-חטיאט	CH CII-ON	-CH2CH=CMe2	-(Cn2)2CnMe2	am -HJ-HJ-	CH3CH=CCI3	CHOCHECMS.	CHa) CHMes	Mo	SWU-HU-HU	CH2CH-CMez	יאט-ווסס-ווס	CHANGING	-(cnz)zcnwez	INIE	CIT CIT CO.	CH2CH=CCI2	CH ₂ ,CH _M
HN	NMe	0	<u></u>	N		NMo	C	C	NH	HN	NMo			HN	NH	NIMO	TAINIE		HIN	H
OEt	OEt	OEt	ORt	S S	OMo	OMe	OMe	OMe	H	H	H	F	=	OF	O.F.	O.E.	O.E.	0.00	OMe	OMe
H	H	Н	н	= =	i =	= =	H	H	Ŀ	Ľ.	[E.	Œ	(F	Ξ	Ή	=	=	= =	1 =	H
Н	Н	Н	H	Ξ	Ξ Ξ	H	Н	Н	Н	Н	Н	н	H	I	Ξ	Ħ	Ξ	=	Ξ	H
H	Н	Н	H	H	=	H	Н	Н	Н	H	Н	H	H	H	Н	I	I	H	H	H
Me	Me	Me	Me	OH	HO	НО	H	Н												
Me	Me	Me	Me	OEt	Me	Me														
Me	Me	Me	Me	OMe	OMe	OMe	ОМе	ОМе	OMe	ОМе	OMe	OMe	Me	Me						
H	H	Н	Н	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Me	Me
H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	H	Н	Н	Н	Н	Н	Н	Н
田	H	H	H	Н	H	Н	H	Н	H	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н
<u></u>	[=	[2.	(T.	দ	ᄺ	F	伍	Œ	<u>F</u>	Œ	Œ	[Z-1	দ	দ	G,	F	F	댼	F.	দ
二	田	田	H	H	Н	H	H	王	円	田	픠	H	Ξ	田	H	H	H	H	Н	H
·NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NH ₂	-NH2
1-2355	1.2356	1.2357	1.2358	1.2359	1.2360	1.2361	1.2362	1.2363	1.2364	I-2365	I.2366	I-2367	I.2368	I-2369	1.2370	I-2371	1.2372	I.2373	1.2374	1.2375

Table 317

1.2376	-NH ₂	三	[-	H	H	Me	Me	Me	Н	Н	H	Н	OMe	NMe	Me
1.2377	-NH2	Ξ	[2,	H	Н	Me	Me	Me	Н	Н	H	Н	OMe	0	-CH2CH=CMe2
1.2378	-NH ₂	픠	দ	Н	Н	Me	Me	Me	Н	Н	H	H	OMe	0	-CH2CH=CCl2
I.2379	-NH2	円	[고	Н	Н	Me	Me	Me	Н	Н	Н	댼	H	·HN	·CH2CH=CMe2
1.230	-NH ₂	픠	伍	Н	Н	Me	Me	Me	H	H	Н	দ	H	HN	-(CH ₂) ₂ CHMe ₂
I-2381	·NH2	H	伍	H	Н	Me	Me	Me	Н	H	Н	দ	Н	NMe	Me
1.2382	-NH2	田	Ŀ	H	Н	Me	Me	Me	Н	Н	Н	E-1	Н	0	-CH2CH=CMe2
I-2383	-NH2	픠	F	H	Н	Me	Me	Me	H	Н	Н	F	Н	0	-CH2CH=CCl2
I.2384	·NH ₂	픠	F	H	H	Me	Me	Me	Н	Н	Н	H	OEt	HN	-CH2CH=CMe2
1.2385	-NH2	田	F	H	Н	Me	Me	Me	H	Н	Н	Н	OEt	HN	-(CH ₂) ₂ CHMe ₂
I-2386	.NH2	픠	F	H	Н	Me	Me	Me	Н	Н	Н	Н	OEt	NMe	Me
1.2387	-NH ₂	田	Ţ.	H	Н	Me	Me	Me	Н	Н	H	Н	OEt	0	-CH2CH=CMe2
I.2388	-NH ₂	王	F	H	Н	Me	Me	Me	Н	H	·Η	Н	OEt	0	CH2CH=CCl2
1.2389	-NH ₂	田	ഥ	王	H	Н	Me	OMe	НО	Н	Н	H	OMe	HN	-CH2CH=CMe2
1.2390	.NH2	耳	F	H	H	Н	Me	ОМе	НО	Н	Н	Н	OMe	HN	-(CH ₂) ₂ CHMe ₂
I-2391	-NH ₂	王	F	H	H	Н	Me	OMe	НО	Н	Н	Н	OMe	NMe	Me
1.2392	.NH2	픠	댼	H	Н	Н	Me	ОМе	НО	Н	Н	Н	OMe	0	·CH2CH=CMe3
I-2393	-NH ₂	田	দ	H	Н	Н	Me	ОМе	НО	Н	Н	Н	ОМе	0	-CH2CH=CCl2
I-2394	-NH ₂	픠	F	H	Н	Н	Me	ОМе	НО	Н	Ξ	F	Н	HN	-CH2CH=CMe2
1-2395	-NH ₂	픠	伍	Ħ	H	H	Me	ОМе	НО	н	Н	F	Н	HN	-(CH ₂) ₂ CHMe ₂
1.2396	-NH ₂	픠	দ	H	Н	Н	Me	OMe	НО	H	H	F	Н	NMe	Me

Table 318

1.2397	·NH2	H	Œ	H	Н	Н	Me	OMe	ОН	H	Н	F	H	0	-CH2CH=CMe2
I-2398	-NH2	H	Œ	H	Н	Н	Me	OMe	0H	Н	Н	F	Н	0	-CH2CH=CCl2
I-2399	·NH2	Н	(F)	H	H	H	Me	OMe	ОН	Н	Н	Н	OEt	NH	-CH2CH=CMe2
1.2400	.NH2	Н	딘	Н	H	Н	Me	ОМе	ЮН	Н	H	Н	OEt	NH	-(CH ₂) ₂ CHMe ₂
1.2301	.NH2	H	[2]	Н	Н	Н	Me	OMe	НО	H	Н	Н	OEt	NMe	Me
I-2302	-NH2	Н	드	Н	Н	Н	Me	ОМе	ОН	н	H	Н	OEt	0	-CH2CH=CMe2
I.2303	.NH2	Н	ᅜ	Н	Н	Н	Me	OMe	ОН	H	H	Н	OEt	0	-CH2CH=CCl2
1.2304	-NH2	H	দ	Н	Н	Me	Н	Me	ОН	H	H	Н	OMe	NH	-CH2CH=CMe2
I.2305	.NH2	H	Œ	Н	Н	Me	Н	Me	НО	Н	H	н	ОМе	NH	(CH ₂) ₂ CHMe ₂
1-2306	-NH ₂	H	됴	Н	H	Me	Н	Me	НО	н	H	H	ОМе	NMe	Me
I-237	.NH2	H	দ	H	Н	Me	Н	Me	НО	Н	H	H	OMe	0	-CH2CH=CMe2
1.2308	.NH2	프	দ	Н	H	Me	Н	Me	ЮН	Н	H	H	ОМе	0	-CH2CH=CCl2
I:2309	.NH2	H	দ	H	H	Me	Н	Me	НО	Н	Ħ	ᄺ	H	NH	-CH2CH=CMe2
1.2310	.NH2	Ξ	ᄕ	H	H	Me	Н	Me	НО	Н	H	<u>E</u> 1	Н	HN	-(CH ₂) ₂ CHMe ₂
1.2311	·NH2	픠	F	H	Н	Me	Н	Me	ЮН	Н	Ħ	F	Н	NMe	Me
I-2312	·NH2	三	Œ	Н	Н	Me	H	Me	НО	H	Ħ	দ	Н	0	-CH2CH=CMe2
I-2313	-NH2	H	된	H	Н	Me	H	Me	ЮН	H	H	FI	Н	0	-CH2CH=CCl2
1.2314	-NH ₂	田	ഥ	H	H	Me	H	Me	НО	Н	H	Н	OEt	NH	-CH2CH=CMe2
I-2315	·NH2	H	124	Н	H	Me	Н	Me	НО	H	Н	H	OEt	NH	-(CH ₂) ₂ CHMe ₂
1.236	-NH ₂	H	ഥ	H	田	Me	H	Me	0H	H	Ħ	H	OEt	NMe	Me
1.237	-NH2	픠	F	Н	Н	Me	H	Me	0H	H	H	H	OEt	0	-CH2CH=CMe2

Table 319

1.2318	-NH2	Ξ	F	H	H	Me	Н	Me	ОН	Н	Н	H	OEt	0	-CH2CH=CCl2
1.2319	·NHz	H	ᄕ	H	Н	Н	Me	Me	Me	Н	Н	Н	OMe	HN	-CH2CH=CMe2
1.230	.NH2	田	ഥ	_ H	Н	Н	Me	Me	Me	Н	H	H	OMe	NH	-(CH ₂) ₂ CHMe ₂
1-2321	.NH2	王	[고	Ŧ	H	Н	Me	Me	Me	Н	Н	H	OMe	NMe	Me
I-2322	.NH2	田	[4	王	H	Н	Ме	Me	Me	Н	H	H	ОМе	0	-CH2CH=CMe2
I.2323	.NH2	픠	দ	田	H	Н	Me	Me	Me	Н	H	H	ОМе	0	-CH2CH=CCl2
1.2324	·NH2	H	[24	王	H	Н	Me	Me	Me	н	H	দ	Н	NH	-CH ₂ CH=CMe ₂
1.2325	.NH2	프	<u>E</u> 1	프	田	Н	Me	Me	Me	H	H	다	Н	NH	·(CH ₂) ₂ CHMe ₂
1.236	-NH ₂	프	[24	H	H	Н	Me	Me	Me	Н	H	দ	Н	NMe	Me
I.2327	.NH2	H	(F)	H	H	H	Me	Me	Me	H	H	뇬	н	0	-CH2CH=CMe2
I.2328	-NH ₂	田	দ	H	H	Н	Me	Me	Me	Н	H	ᅜ	н	0	-CH2CH=CCl2
I-2329	·NH2	田	Œ,	H	H	Н	Me	Me	Me	Н	H	H	OEt	HN	·CH2CH=CMe2
1.2330	-NH2	王	Ŀ	田	田	Н	Me	Me	Me	Н	H	Н	OEt	HN	-(CH2)2CHMe2
1.2331	-NH2	H	ᄄ	H	H	H	Me	Me	Me	Н	田	H	OEt	NMe	Me
1.2332	·NH2	H	ഥ	H	田	H	Me	Me	Me	Н	H	H	OEt	0	-CH2CH=CMe2
I-2333	-NH2	円	<u> </u>	H	H	H	Me	Me	Me	Н	H	H	OEt	0	·CH2CH=CCl2
I-2334	-NH2	픠	드	田	田	H	OMe	OEt	НО	Н	H	H	OMe	NH	-CH2CH=CMe2
1.2335	-NH2	H	<u>[</u> -	田	田	H	OMe	OEt	НО	Н	H	H	ОМе	NH	-(CH ₂) ₂ CHMe ₂
1.2336	-NH2	H	ഥ	H	田	H	OMe	OEt	ЮН	H	田	H	ОМе	NMe	Me
I.2337	-NH2	H	[F	H	H	H	ОМе	OEt	НО	H	H	H	ОМе	0	·CH2CH=CMe2
I-2338	-NH2	H	F	田	H	H	ОМе	OEt	НО	H	H	H	OMe	0	.CH2CH=CCl2

Table 320

1.2339	-NH2	Ξ	도	H	H	Н	OMe	OEt	НО	Н	H	[±,	H	HN	·CH2CH=CMe2
1.2340	.NH2	Н	F	Н	Н	Н	OMe	OEt	НО	Н	Н	된	Н	HN	-(CH2)2CHMe2
1-2341	.NH2	Н	ᅜ	Н	H	Н	OMe	OEt	0H	Н	Н	F	Н	NMe	Me
1.2342	.NH	H	F	Н	H	Н	ОМе	OEt	ОН	Н	H	F	Н	0	·CH2CH=CMe2
1-2343	·NH2	H	ഥ	H	Η	Н	ОМе	OEt	НО	Н	Н	F.	Н	0	·CH2CH=CCl2
1-2344	.NH2	Н	F	Н	H	Н	ОМе	OEt	НО	Н	Н	H	OEt	HN	-CH2CH=CMe2
1.2345	·NH2	Н	ഥ	H	Н	Н	OMe	OEt	НО	Н	Н	Н	OEt	HN	-(CH2)2CHMe2
I-2346	-NH2	H	드	H	Н	Н	OMe	OEt	ЮH	Н	Н	H	OEt	NMe	Me
1.2347	-NH2	Н	Œ	H	Ή	Н	ОМе	OEt	НО	H	Н	H	OEt	0	-CH2CH=CMe2
I-2348	.NH²	H	ᄕ	H	Н	Н	OMe	OEt	НО	H	Н	H	130	0	-CH2CH=CCl2
I.2349	·NHCH2CH=CMe2	H	H	Н	Н	Me	Me	Me	H	H	H	Н	ОМе	NH	·CH2CH=CMe2
1.2350	·NHCH2CH=CMe2	H	H	H	H	Me	Me	Me	Н	Н	Н	Н	ОМе	NH	-(CH ₂) ₂ CHMe ₂
1.2351	-NHCH2CH=CMe2	円	Н	H	Н	Me	Me	Me	Н	Н	H	Н	ОМе	NMe	Me
I.2352	·NHCH2CH=CMe2	田	Н	田	H	Me	Me	Me	Н	Н	H	Н	OMe	0	·CH2CH=CMe2
I.2353	·NHCH2CH=CMe2	田	Н	Ħ	H	Me	Me	Me	Н	Н	н	H	OMe	0	-CH2CH=CCl2
1.2354	-NHCH2CH=CMe2	H	H	H	H	Me	Me	Me	Н	Н	н	伍	Н	NH	·CH2CH=CMe2
I-2355	·NHCH2CH=CMe2	田	H	H	H	Me	Me	Me	Н	Н	H	ᄄ	Н	NH	-(CH2)2CHMe2
1.2356	·NHCH2CH=CMe2	H	H	田	H	Me	Me	Me	н	Н	Н	F	Н	NMe	Me
1.2357	·NHCH2CH=CMe2	H	Н	H	田	Me	Me	Me	H	H.	H	দ	H	0	·CH2CH=CMe2
I.238	·NHCH2CH=CMe2	H	Н	H	Ħ	Me	Me	Me	Н	Н	Н	ഥ	Н	0	-CH2CH=CCl2
1.2359	-NHCH2CH=CMe2	H	H	田	H	Me	Me	Me	H	Н	H	H	OEt	NH	-CH2CH=CMe2

Table 321

1-2360	-NHCH2CH=CMe2	H	H	H	H	Me	Me	Me	H	н	H	H.	OEt	NH	-(CH ₂) ₂ CHMe ₂
1.2361	-NHCH2CH=CMe2	H	H	H	H	Me	Me	Me	Н	Н	H	Н	OEt	NMe	Me
1.2362	-NHCH2CH=CMe2	H	H	H	田	Me	Me	Me	Н	H	Н	Н	OEt	0	-CH2CH=CMe2
1.2363	-NHCH ₂ CH=CMe ₂	H	H	H	H	Me	Me	Me	Н	H	H	Н	OEt	0	-CH2CH=CCl2
I-2364	-NHCH2CH=CMe2	田	H	Н	Н	Н	Me	ОМе	НО	Н	H	Н	OMe	HN .	-CH2CH=CMe2
1.2365	-NHCH2CH=CMe2	H	Н	Н	Н	Н	Me	OMe	HO	Н	Н	H	OMe	NH	·(CH ₂) ₂ CHMe ₂
1.2366	-NHCH2CH=CMe2	Н	H	H	Н	Н	Me	ОМе	НО	Ĥ	Н	H	OMe	NMe	Me
I-2367	-NHCH2CH=CMe2	Н	H	H	Н	Н	Me	ОМе	ЮН	Н	Н	Н	OMe	0	-CH2CH=CMe2
1.2368	-NHCH2CH=CMe2	H	Н	Н	Н	Н	Me	ОМе	НО	Н	Н	Н	OMe	0	-CH2CH=CCl2
I-2369	-NHCH2CH=CMe2	H	Н	H	Н	Н	Me	ОМе	НО	Н	H	F	Н	HN	-CH2CH=CMe2
I.2370	-NHCH2CH=CMe2	Н	H	H	H	Н	Me	ОМе	НО	Н	Н	F	Н	NH	-(CH2)2CHMe2
1.2371	-NHCH2CH=CMe2	Н	Н	H	H	Н	Me	OMe	НО	Н	Н	F	H	NMe	Me
1.2372	-NHCH2CH=CMe2	Н	H	H	Н	Н	Me	OMe	НО	Н	Н	F	Н	0	-CH2CH=CMe2
1.2373	-NHCH2CH=CMe2	H	H	H	Н	Н	Me	OMe	НО	Н	Н	Ŧ	Н	0	-CH2CH=CCl2
I.2374	-NHCH2CH=CMe2	H	H	Н	H	Н	Me	ОМе	НО	Н	Н	H	OEt	HN	-CH2CH=CMe2
I.2375	·NHCH2CH=CMe2	H	H	Н	Н	Н	Me	ОМе	НО	Н	Н	H	OEt	HN	-(CH ₂) ₂ CHMe ₂
I-2376	-NHCH2CH=CMe2	H	Н	Н	Н	Н	Me	OMe	НО	H	H	Н	OEt	NMe	Me
1.2377	-NHCH2CH=CMe2	H	H	H	Н	Н	Me	ОМе	ЮН	Н	Н	H	OEt	0	-CH2CH=CMe2
1.2378	·NHCH2CH=CMe2	H	H	Н	Н	Н	Me	OMe	НО	Н	Ħ	Н	OEt	0	·CH2CH=CCl2
1.2379	·NHCH2CH=CMe2	H	H	Н	Н	Me	Н	Me	НО	Н	H	H	ОМе	NH	-CH2CH=CMe2
1.2380	-NHCH2CH=CMe2	H	H	H	Н	Me	Н	Me	НО	Н	H	Н	OMe	NH	·(CH2)2CHMe2

Table 322

				,																
Me	-CH2CH=CMe2	-CH2CH=CCl2	-CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	·CH ₂ CH=CMe ₂	-CH2CH=CCl2	$-CH_2CH=CMe_2$	-(CH ₂) ₂ CHMe ₂	Me	$-CH_2CH=CMe_2$	-CH2CH=CCl2	-CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	-CH2CH=CMe2	-CH2CH=CCl2	-CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me
NMe	0	0	NH	NH	NMe	0	. 0	NH	NH	NMe	0	0	HN	HN	NMe	0	0	NH	HN	NMe
ОМе	ОМе	ОМе	H	Н	Н	H	Н	OEt	OEt	OEt	OEt	OEt	OMe	OMe	OMe	ОМе	OMe	Н	Н	Н
H	Н	H	ᅜ	FI	ᅜ	H	ᄕ	Н	Н	Н	Н	Н	Н	Н	Н	·H	Н	F	F	F
H	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	H	Н
Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H
HO.	НО	Н0	НО	НО	НО	НО	НО	НО	ЮН	НО	НО	ЮН	Me	Me	Me	Me	Me	Me	Me	Me
Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me.	Me	Me	Me
田	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Me	Me	Me	Me	Me	Me	Me	Me
Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Me	Н	H	Н	Н	Н	Н	Н	Н
H	田	H	H	H	Н	Н	H	Н	H	H	Н	H	H	Н	H	H	Н	Н	Н	Н
H	田	H	H	H	H	Н	H	H	H	H	Н	Н	Н	H	H	H	Н	Н	Н	Н
H	H	Н	H	H	H	H	H	Н	H	Н	Н	Н	Н	H	Н	H	H	Н	Н	Н
王	H	Н	H	H	H	H	H	Н	Н	Н	Н	H	Н	H	H	Ħ	Ħ	田	田	H
.NHCH2CH=CMe2	.NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	.NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2
1.2381	1-2382	1-2383	1-2384	I-2385	1.236	1-2387	I-2388	I-2389	I-2390	I-2391	1.2392	I-2393	1.2394	I.2395	1.2396	I.2397	I.2398	I.2399	1.2400	1.2401

Table 323

CMe ₂	:CCl2	CMe ₂	HMez		CMe2	:CCl²	CMe ₂	HMe ₂		CMe ₂	:CCl2	CMe ₂	HMe ₂		CMe ₂	:CCl ₂	CMe2	HMe2		CMe ₂
-CH2CH=CMe2	-CH2CH=CCl2	·CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	-CH2CH=CMe2	-CH2CH=CCl2	-CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	-CH2CH=CMe2	-CH2CH=CCl2	-CH2CH=CMe2	-(CH ₂) ₂ CHMe ₂	Me	-CH2CH=CMe2	-CH2CH=CCl2	-CH2CH=CMe2	-(CH2)2CHMe2	Me	-CH2CH=CMe2
0	0	NH	HN	NMe	0	0	NH	HN	NMe	0	0	NH	NH	NMe	0	0	NH	HN	NMe	0
Н	Н	OEt	OEt	OEt	OEt	OEt	OMe	OMe	OMe	OMe	OMe	H	Н	H	Н	Н	OEt	OEt	OEt	OEt
দ	দ	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	দ	F	F	F	F	Н	Н	Н	Н
Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	H	Н	H	Н	Н	Н
Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	H	Н
Me	Me	Me	Me	Me	Me	Me	0Н	ОН	0Н	0Н	ОН	ОН	НО	НО	НО	НО	НО	НО	НО	ЮН
Me	Me	Me	Me	Me	Me	Me	OEt	OEt	OEt	OEt	OEt	OEt	OEt	OEt	OEt	OEt	OEt	OEt	OEt	OEt
Me	Me	Me	Me	Me	Me	Me	OMe	OMe	OMe	OMe	OMe	ОМе	OMe	OMe	OMe	ОМе	ОМе	ОМе	OMe	OMe
Н	H	H	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	H	Н	Н	Н	Н	H,	Н
Н	H	Н	Н	Н	Н	H	H	Н	Н	Н	H	Н	H	H	Н	H	H	田	Ħ	H
Н	田	H	H	Н	Н	H	H	Н	Н	Н	H	Н	Н	Н	Н	Н	Н	Н	Н	Н
Н	Н	Н	Н	Н	H	H	H	H	H	H	H	H	H	H	H	Ξ	H	H	H	H
H	H	H	Н	Н	王	H	Н	H	H	王	H	H	田	田	田	田	피	田	田	田
-NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	-NHCH2CH=CMe2	NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	-NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2	·NHCH2CH=CMe2
I-2402	1.2403	1.2404	1.2405	1.2406	1.2407	1.2408	1.2409	1.2410	I-2411	1.2412	I.2413	1:2414	I-2415	1.2416	I-2417	I-2418	1.2419	I-2420	I-2421	I-2422

Table 324

I-2423	-NHCH2CH=CMe2	H	H	H	Н	Н	OMe	OEt	ОН	Н	Н	H	OEt	0	.CH2CH=CCl2
1-2424	-OMe	Н	Н	Н	Н	Me	Me	Me	Н	Н	Н	Н	OMe	HN	-CH2CH=CMe2
1-2425	-OMe	H	Н	Н	Н	Me	Me	Me	Н	Н	Н	Н	ОМе	NH	-(CH2)2CHMe2
1.2426	-OMe	Н	H	Н	H	Me	Me	Me	Н	Н	H	Н	ОМе	NMe	Me
1.2427	-OMe	H	H	H	Н	Me	Me	Me	Н	Н	H	Н	OMe	0	·CH2CH=CMe2
1.2428	-OMe	H	H	Н	Н	Me	Me	Me	Н	H	Н	Н	OMe	0	-CH2CH=CCl2
I-2429	-ОМе	Н	H	Н	H	Me	Me	Me	Н	H	H	F	Н	NH	-CH ₂ CH=CMe ₂
1.2430	-ОМе	田	H	Н	Н	Me	Me	Me	Н	Н	H	ম	Н	NH	-(CH ₂) ₂ CHMe ₂
1.2431	-ОМе	Œ	Н	H	Н	Me	Me	Me	Н	Ĥ	H	F	H	NMë	Ме
1.2432	-ОМе	田	Н	H	Н	Me	Me	Me	Н	Н	Н	F	. Н	0	·CH2CH=CMe2
1.2433	-ОМе	H	H	H	H	Me	Me	Me	Н	Н	Н	ম	Н	0	-CH2CH=CCl2
1.2434	-ОМе	픠	H	H	H	Me	Me	Me	Н	Н	н	Н	OEt	NH	-CH2CH=CMe2
1:2435	-ОМе	田	H	H	H	Me	Me	Me	Н	Н	Н	H	OEt	NH	-(CH ₂) ₂ CHMe ₂
1.2436	-OMe	픠	H	H	H	Me	Me	Me	Н	Н	H	Н	OEt	NMe	Me
I-2437	.OMe	田	H	田	H	Me.	Me	Me	Н	Н	Н	Н	OEt	0	·CH2CH=CMe2
I.2438	-OMe	三	田	H	H	Me	Me	Me	Н	H	H	Н	OEt	0	-CH2CH=CCl2
I-2439	.OMe	H	H	H	H	Н	Me	OMe	НО	H	Н	Н	OMe	NH	-CH2CH=CMe2
I-2440	-OMe	田	H	H	H	Н	Me	OMe	НО	H	Н	Н	OMe	NH	-(CH ₂) ₂ CHMe ₂
I-2441	-OMe	H	H	H	H	Н	Me	OMe	НО.	H	Н	Н	OMe	NMe	Me
I-2442	-OMe	田	H	田	Ħ	Н	Me	OMe	НО	Ħ	H	Н	ОМе	. 0	-CH2CH=CMe2
I-2443	-OMe	H	Ή	H	H	Н	Me	OMe	НО	H	H	H	OMe	0	-CH2CH=CCl2

Table 325

1.2444	-ОМе	二		田	H	H	Me	ОМе	НО	Н	Н	F	Н	HN	-CH2CH=CMe2
1-2445	-OMe	王	H	田	H	H	Me	ОМе	Н0	Н	Н	F	Н	NH	-(CH ₂) ₂ CHMe ₂
1.2446	-ОМе	三	픠	円	F	H	Me	ОМе	НО	Н	Н	F	Н	NMe	Me
I-2447	-OMe	円	田	픠	王	H	Me	ОМе	ОН	Н	Н	F	H	0	-CH2CH=CMe2
I-2448	.OMe	田	Н	H	王	H	Me	ОМе	Н0.	Н	Н	F	Н	0.	-CH2CH=CCl2
1.2449	-OMe	H	三	H	H	H	Me	ОМе	Н0	Н	Ħ	H	OEt	HN	·CH2CH=CMe2
1.2450	-OMe	田	H	픠	H	H	Me	ОМе	НО	Н	Н	Н	OEt	HN	-(CH2)2CHMe2
1.2451	-OMe	田	H	H	田	H	Me	OMe	Н0	Н	Н	H	OEt	NMe	Me
I.2452	-OMe	工	H	H	Ħ	H	Me	OMe	Н0	Н	H	H	OEt	0	-CH2CH=CMe2
I-2453	-OMe	王	H	田	当	H	Me	- ОМе	ЮН	H	Н	Н	OEt	0	-CH2CH=CCl2
I.2454	-OMe	王	H	H	王	Me	Н	Me	НО	Н	Н	Н	ОМе	HN	CH2CH=CMe2
1.2455	-OMe	田	田	H	H	Me	H	Me	ЮН	Н	Н	Н	ОМе	HN	-(CH ₂) ₂ CHMe ₂
I-2456	-OMe	円	H	H	H	Me	H	Me	HO	Н	H	Н	OMe	NMe	Me
I-2457	-OMe	田	田	H	田	Me	Н	Me	НО	Н	Н	Н	OMe	0	-CH2CH=CMe2
I-2458	-OMe	H	H	H	픠	Me	Ħ.	Me	ЮH	Н	Н	Н	OMe	0	-CH2CH=CCl2
I-2459	-OMe	円	H	프	円	Me	H	Me	Н0	H	Н	ഥ	Н	HN	-CH2CH=CMe2
I-2460	-OMe	픠	円	H	田	Me	Н	Me	Н0	Н	H	뚀	Н	HN	·(CH ₂) ₂ CHMe ₂
I.2461	-OMe	H	H	H	田	Me	H	Me	НО	Н	Н	<u>F</u>	Н	NMe	Me
I.2462	-OMe	田	田	H	H	Me	Н	Me	НО	Н	Н	स	Н	0	-CH2CH=CMe2
I-2463	-OMe	円	田	H	픠	Me	H	Me	Н0	Н	H	뚀	Н	0	-CH2CH=CCl2
1.2464	-ОМе	H	픠	H	H	Me	Н	Me	НО.	H	H	Н	OEt	NH	-CH2CH=CMe2

Table 326

1.2465	-OMe	픠	Н	Н	H	Me	Н	Me	НО	Н	Н	H	OEt	NH	·(CH ₂) ₂ CHMe ₂
1.2466	-ОМе	工	Н	H	H	Me	Н	Me	Н0	Н	H	Н	OEt	NMe	Me
1.2467	-OMe	王	H	H	H	Me	Н	Me	ЮН	Н	H	Н	OEt	0	-CH2CH=CMe2.
1.2468	-OMe	王	Н	H	H	Me	Н	Me	Н0	H	H	Н	OEt	0	-CH2CH=CCl2
1.2469	-ОМе	耳	H	Н	Н	Н	Me	Me	Me	H	H	H	OMe	HN	-CH2CH=CMe2
1.2470	-ОМе	田	H	Н	H	Н	Me	Me	Me	H	Н	H	OMe	HN	-(CH2)2CHMe2
1.2471	-ОМе	耳	H	Н	Н	Н	Me	Me	Me	H	Н	H	OMe	NMe	Me
1.2472	-OMe	田	H	H	Н	Н	Me	Me	Me	Н	Н	H	OMe	0	·CH2CH=CMe2
1.2473	-ОМе	田	H	Н	H	Н	Me	Me	Me	H	Н	Н	OMe	0	-CH2CH=CCl2
1.2474	-ОМе	田	Н	H	Н	Н	Me	Me	Me	Н	Н	F	Н	HN	-CH2CH=CMe2
1.2475	.OMe	円	H	Н	Н	Н	Me	Me	Me	Н	Н	F	H	HN	-(CH2)2CHMe2
1.2476	-OMe	픠	H	Н	Н	Н	Me	Me	Me	Н	Н	F	Н	NMe	Me
1-2477	-OMe	픠	H	H	Н	Н	Me	Me	Me	Н	H	F	Н	0	-CH2CH=CMe2
1.2478	-OMe	H	H	Н	H	Н	Me	Me	Me	Н	H	F	H	0	-CH2CH=CCl2
1.2479	-OMe	H	王	H	Н	Н	Me	Me	Me	Н	н	Н	OEt	HN	-CH2CH=CMe2
I-2480	-OMe	H	H	H	Н	Н	Me	Me	Me	H	Н	Н	OEt	HN	-(CH ₂) ₂ CHMe ₂
1.2481	-OMe	H	H	Н	Н	Н	Me	Me	Me	Н	H	Н	OEt	NMe	Me
I-2482	-OMe	H	H	Н	H	H	Me	Me	Me	Н	H	H	OEt	0	-CH2CH=CMe2
I-2483	-OMe	田	H	Н	H	Н	Me	Me	Me	H	Ħ	Ή	OEt	0	-CH2CH=CCl2
I.2484	-ОМе	田	H	H	Н	Н	ОМе	OEt	ЮН	Н	H	Н	OMe	NH	-CH2CH=CMe2
I.2485	-OMe	픠	H	Н	H	Н	OMe OEt	OEt	ОН	Н	H	Н	OMe	NH	-(CH ₂) ₂ CHMe ₂

Table 327

£		L	L													
.OMe	<u>le</u>	Ξ	H	H	Н	Н	OMe	OEt	Ю	H	H	Н	OMe	NMe	Me	
0	-OMe	Н	Н	Н	Н	Н	OMe	OEt	НО	н	H	Н	ОМе	0	-CH,CH=CMe,	_
اب	-ОМе	H	Н	H	Н	H	OMe	OEt	HO	H	Н	Н	OMe	0	-CH2CH=CCI2	
	-ОМе	Н	Н	H	Н	Н	OMe	OEt	НО	Н	Н	<u>F</u>	H	HN	·CH2CH=CMe,	_
	-OMe	H	H	Н	Н	Н	OMe	OEt	НО	Н	Н	F	H.	HN	-(CH ₂) ₂ CHMe ₂	·
	-ОМе	H	田	Н	Н	Н	ОМе	OEt	НО .	Н	Н	দ	H	NMe	Me	_
	-OMe	王	·H	Н	Н	Н	OMe	OEt	НО	H	H	ᄕ	H	0	-CH2CH=CMe2	-
	-OMe	H	H	Н	Н	Н	OMe	OEt	Н0	Н	Н	ᄄ	Н	0	-CH2CH=CCl2	
	-OMe	王	H	H	Н	Н	OMe	OEt	НО	Н	Н	H	OEt	HN	-CH2CH=CMe2	_
	-ОМе	王	H	Н	Н	H	ОМе	OEt	НО	Н	Н	H	OEt	HN	-(CH ₂) ₂ CHMe ₂	
	-OMe	프	H	Н	Н	H	OMe	OEt	Н0-	Н	н	H	OEt	NMe	Me	
	-OMe	H	Ξ	Н	Н	Н	OMe	OEt	НО	H	H	Н	OEt	0	-CH2CH=CMe2	
. •	-ОМе	픠	H	H	Н	Н	ОМе	OEt	НО	Н	H	H	OEt	0	-CH2CH=CCl3	
	•														7.00	

In the above tables, "-OCH2O-*" and "*" mean that they taken together form a ring.

Experiment 1 Suppressive effect on a mitogenic activity of mouse splenocytes in vitro

In 96-well microtiter plate 5×10^5 C3H/HeN mouse splenocytes suspended in 0.1 ml of 10 % fetal bovine serum-fortified RPMI 1640 medium containing 2 mM of sodium bicarbonate, 50 units/ml of penicillin, 50 μg/ml of streptomycin and 5×10-5 M of 2mercaptoethanol were added. Then, 5 µg/ml of Concanavalin A (Con A) or 10 µg/ml of lipopolysaccharide (LPS) as a mitogen and the compound of a pre-determined concentration of the present invention were added to each well so that a final volume of each well reached 0.2 ml. Each compound of the present invention was dissolved in dimethylsulfoxide (DMSO) and diluted with the above RPMI 1640 medium to adjust the final concentration of 100 ng/ml or less. The splenocytes in the 96-well microtiter plate were cultivated at 37 °C for 3 days in an incubator keeping the humidity 100 %, carbon dioxide 5 % and air 95 %. Then, 25 µl of 6 mg/ml MTT [3-(4,5-dimethylthiazol-2-yl)-2,5diphenyltetrazolium bromide] (Sigma) was added to the each well and cultivated at 37 $^{\circ}\mathrm{C}$ for 4 hours under the same conditions. After the cultivation, 50 μ l of 0.02 N hydrochloric acid in 20 % sodium dodecyl sulfate (SDS) was added to formazan generated and left at 37 °C for 24 hours for dissolving formazan. An absorption intensity (OD) of formazan generated in proportion to the number of living cells was measured with an immunoreader (InterMed) equipped with a 570 nm filter (The Journal of Immunological Method, 65, 55-63, 1983). The 50 % inhibitory concentration of a cell proliferation (IC 50) was calculated from a correlation between the concentration of the compound of the present invention and the absorption intensity.

Experiment 2 Anti-proliferative activity on EL4 cells

In 96-well microtiter plate $4 \times 10^4 / 0.1$ ml of mouse thymoma strain EL4 cells were

added and 0.1 ml of the compound of the present invention was added to the mixture so that the concentration was in the range of 0-5,000 ng/ml. After the cultivation for 3 days, the IC_{50} was calculated by the MTT method as described in Experiment 1.

The results are shown in Tables 328-329.

Table 328

Compound	ConA IC ₅₀ (ng/ml)	LPS IC ₅₀ (ng/ml)	EL-4 IC ₅₀ (ng/ml)
I-1	0.86	1.92	8.56
I-9	<20	<20	<20
I-12	1.3	2.8	46.2
I-22	5.62	4.26	6.2
I-35	19.5	39.4	140
I-40	6.1	16.5	37.4
I-41	0.73	1.74	4.89
I-46	10.6	23.9	67.5
I-49	8.89	16.2	31.7
I-50	3.83	9.2	11.9
I-51	6.6	14.7	70.0
I-59	8.5	22.4	140
I-62	29.2	25	23.4
I-63	13	27	16
I-66	0.22	0.35	0.48
I-71	4.56	14.2	31.2
I-101	0.8	0.5	1.8
I-103	3.4	3.7	4.6
I-104	3.0	3.1	4.8
I-106	0.6	0.4	2.7
I-107	0.6	0.7	12
I-121	0.8	1.2	0.8
I-163	<20	<20	<20
I-173	<20	<20	<20
I-175	<20	29.4	<20
I-187	12.0	25.1	36.2
I-211	<20	<20	<20
I-248	<10	<10	312
I-250	<10	<10	88.3
I-251	<10	<10	97.4

I-255	<20	<20	<20
I-256	<20	28.7	310
I-275	6.34	13.5	100
I-276	1.8	3.1	200
I-299	5.53	7.85	13.6
I-301	7.06	11.0	15.8
I-360	<20	<20	99.8
I-361	<20	<20	124
I-418	255	497	>10000
I-427	255	497	>10000
I-457	<20	<20	205
I-466	<20	<20	46
I-484	14.7	32.2	91.4
I-513	6.89	11.1	61.8
I-525	0.76	1.11	5.0
I-639	4.59	6.25	50
I-661	0.67	1.28	50
I-739	18.8	20.7	430
I-742	10	20	45.2
I-758	6.78	9.63	55.1
I-773	8.45	12.6	92.9
I-797	1.75	3.71	26.5
I-834	36	46	226
I-839	1.48	1.87	20.7
I-840	5.31	6.94	31.9
I-878	14.1	27.4	194
I-880	23.0	41.1	105
I-892	<0.2	<0.2	1.41
I-893	0.49	1.05	7.06

Table 329

Compo	ConA	LPS	EL-4 IC ₅₀
und	IC50 (ng/ml)	IC ₅₀ (ng/ml)	(ng/ml)
I-907	23.4	44.5	82.7
I-908	0.45	0.86	3.50
I-909	<20	<20	20
I-931	2.93	5.76	4.37
I-934	16.1	22.2	52.7
I-943	2.97	4.89	46.8
I-962	12.1	16.3	20.4
I-970	<20	<20	50.3
I-976	17.7	34.2	330
I-981	14.9	27.1	>100
I-982	2.0	3.75	55.3
I-988	0.2	0.31	1.23
I-993	5.10	7.54	13.8
I-995	20.9	25.2	49.2
I-1006	8.66	12.3	33.0
I-1007	8.05	10.4	13.1
I-1017	9.74	16.7	72.9
I-1031	<20	21.2	41.7
I-1040	1.80	5.31	1.85
I-1043	2.19	3.27	9.70
I-1058	21.2	30.2	48.8
I-1066	3.91	4.87	20.6
I-1095	6.90	9.57	34.2
I-1103	4.7	6.9	31.4
I-1107	5.8	9.1	34.1
I-1115	<20	<20	<20
I-1121	3.12	9.0	18.6
I-1123	0.80	2.00	3.9
I-1124	94	272	>10000
I-1126	79	234	>10000
I-1127	44	111	412
I-1128	5.00	11.4	26.0
I-1135	1.00	2.70	11.7

I-1160	10.6	14.1	97.4
I-1160	2.4	4.2	
	 		33.2
I-1162	0.65	1.95	30.9
I-1167	0.08	0.23	8.1
I-1168	0.26	0.54	12.5
I-1171	0.63	0.64	27.5
I-1172	13.1	19.4	>100
I-1173	16.4	31.1	>100
I-1177	12.2	20.8	47.2
I-1191	0.16	0.66	22.8
I-1193	1.46	5.3	50
I-1203	14.1	>100	43.5
I-1212	12.87	24.2	85.0
I-1217	<20	<20	<20
I-1227	197	423	>10000
I-1229	5.95	8.05	20.4
I-1230	12.0	15.3	5.22
I-1232	3.77	4.93	15.1
I-1240	2.50	3.34	11.8
I-1248	25.9	36.8	118
I-1250	0.68	1.35	2.90
I-1251	6.30	10.7	27.8
I-1263	<20	<20	29.8
I-1271	0.10	0.32	1.66
I-1274	0.33	1.38	1.44
I-1276	<20	31.3	105
I-1277	<20	<20	<20
I-1278	<20	<20	41.7
I-1284	<20	<20	<20
I-1286	<20	<20	<20
I-1289	<20	<20	<20
I-1290	<20	<20	27.3
I-1295	<20	<20	<20
I-1296	<20	<20	39.7
1-1200	-20	-20	<u> </u>

As shown in the above, the compound of the present invention has immunosuppressive and anti-allergic effects.

Experiment 3 Suppressive effect on the antibody production against bovine y globulin (BGG)

On an immunizing day and 7 days after, 50 µg of BGG was subcutaneously inoculated to backs of BALB/c mice (male, 6-8 weeks old) for inducing an immune reaction. After the compound of the present invention was dissolved or suspended in N, N-dimethylacetoamide, the mixture was diluted with miglyol 812 neutral oil. A proper volume of the compound was orally administered (p.o.) to mice every day from the next day of the immunizing. A two hundredth weight to body weight of miglyol was administered to mice in a control group. After 21 days, blood was drawn from each mouse and a serum was separated. BGG-specific IgE in a serum was measured by the sandwich ELISA method using a BGG-coating plate. The suppressive rate of IgE production was calculated from the dilution rate of the serum which has the same absorption intensity as that of the control group for judging the effect of the compound of the present invention. The results are shown in Table 330.

Table 330

Compound	Dose (mg/kg)	Suppressive rate of antigen-specific IgE (%)
I-525	100	>95
I-915	100	>99
I-892	5	>99
I-963	50	>99
I-1031	100	>99
I-1093	100	>99

Experiment 4 Suppressive effect on the IgE production against ovalbumin (OVA)

1) Animals

BALB/c mice (female, 8-10 weeks old) and Wistar rats (female, 8-10 weeks old) which were bought from Japan SLC, Inc. (Shizuoka) were used.

2) Immunizing method

BALB/c mice were immunized by an intraperitoneal administration of 0.2 ml suspension of 2 µg of ovalbumin (OVA) and 2 mg of aluminium hydroxide gel in physiological saline. After 10 days, blood was drawn from hearts, sera were separated and stocked at -40 °C till the measurement of an IgE antibody titer.

3) Compounds

After the compound of the present invention was dissolved or suspended in N, N-dimethylacetoamide, the mixture was diluted 20 times with miglyol 812 neutral oil.

The obtained solution was orally administered to mice at 0.1 ml per mouse. The administration was continued for 10 days from the immunizing day to the day before drawing blood. IPD-1151-T (a compound described in Jpn. Pharmacol. (1993) 61, 31-39) and a compound No. 36 (a compound 36 described in J. Med. Chem. (1997) 40: 395-407) were examined as controls by the same method.

4) Measurement of anti-OVA IgE antibody titer (PCA titer)

The samples 2-fold diluted with physiological saline were prepared from the obtained mouse serum and each 50 µl of the solution was intradermally injected to backs of Wistar rats which previously hair cut. After 24 hours, a passive cutaneous anaphylaxis reaction (PCA) was induced by an intravenous injection of 0.5 ml of physiological saline containing 1 mg of OVA and 5 mg of Evans' blue dye. After 30 minutes, the rats were sacrified and the highest dilution rate of the serum giving bluing with a diameter of more than 5 mm was recorded as the PCA titer. For example, when a serum is positive for the PCA reaction till 2⁷ times dilution, the anti-OVA IgE antibody titer of the mouse is defined as 7. The results are shown in Table 331.

Table 331

Compound	Dose (mg/kg)	PCA Titer
I-484	40	<0
I-839	40	2.4**
I-851	40	1.8**
I-892	40	<0
I-893	40	2.5**
I-908	40	3.4**
I-915	40	<0
I-925	40	1**
I-928	40	<0
I-948	40	2.6**
I-957	40	4.5**
I-962	40	<0
I-963	40	3.6**
I-988	40	0.8**
I-1031	40	4.4**
I-1043	40	4.8**
I-1066	40	<0
I-1072	40	0.8**
I-1095	40	<0
I-1123	40	2.4**
I-1135	40	4.8**
I-1167	40	4.4**
I-1171	40	· <0
I-1177	40	3.6**
I-1229	40	<0
I-1232	40	1.8**
I-1242	40	2.8**
I-1258	40	1.2**
I-1271	40	<0
IPD-1151-T	50	9.8
No.36	10	10.4

**...P<0.01 vs vehicle

The PCA titers of mice in a group to which any compound was not administered were 9-12.

IPD-1151-T · · ·

As shown in the above, the compound of the present invention has a suppressive effect on the antibody production.

Experiment 5 Suppressive effect on the antibody production of human lymphocytes

1. Experimental method

1) Human peripheral blood

Human peripheral blood was drawn from healthy male adults by plastic syringes filled with heparin (final concentration 1.5 %). Lymphocytes were collected immediately after blood was drawn.

2) Medium

RPMI medium (Nissui Pharmaceutical Co., Ltd.) containing 10 % fetal bovine serum (HyClone Lab.) inactivated at 56 °C for 30 minutes, penicillin (100 units/ml) and streptomycin (100 µg/ml) (GIBCO) was used.

3) Compounds

After the compound (I-839) of the present invention was dissolved in dimethylsulfoxide (Nakaraitesk) at 2 µg/ml, the solution was diluted with the medium to adjust a final concentration to be 0.01 pg/ml - 10 µg/ml. The compound No. 36 was examined as a control by the same method.

4) Human lymphocytes

Human peripheral blood was stratified in a tube filled with Ficoll-Hypaque mixture solution (Dainippon Pharmaceutical Co., Ltd. (Osaka), Mono-poly resolving medium) at the same volume and centrifuged at 300 x g at 15 °C for 30 minutes to obtain a lymphocytes layer. After the collected cell suspension was washed with sterile Hanks'

solution (Nissui Pharmaceutical Co., Ltd.) by centrifugation, sterile distilled water was added to the suspension. After 30 seconds, twice-concentrated Hanks' solution of which amount is equal to the water was added for removal of contaminating erythrocytes. Lymphocytes which were filtered by a nylon mesh and washed by centrifugation were used for experiments as human lymphocytes.

5) Induction of the IgE antibody production by stimulation of B cells

In 96-well cultivating plate (Sumitomo bakelite) the lymphocytes were inoculated 2 x 10^5 cells per well, and the compound, anti-human CD 40 antigen (Pharmingen, 2 µg/ml), human recombinant interleukin-4 (IL-4) (Genzyme, 0.1 µg/ml) and human recombinant interleukin-10 (IL-10) (Genzyme, 0.2 µg/ml) were added and cultivated at 37 °C under 5 % of CO₂ (0.2 ml/well). After the cultivation for 10 days, the amount of antibody in a supernatant was quantified by ELISA method.

6) Quantification of the IgE antibody

A commercial kit MESACUP IgE test (Medical & Biological Laboratories Co., Ltd.) was used for the quantification of the IgE. The experiment followed an instruction manual and was carried out in triplicate to calculate the average.

Quantification of the IgG and IgM antibodies

ELISA method was used for the quantification. In 96-well plate (Nunc) 50 μ l of 1 μ g/ml F(ab')₂ Goat Anti-human IgG + A + M (H+L) (ZYMED Laboratories) was added and the plate was coated at 4 °C overnight. The plate was washed twice with 0.05 % Tween/PBS (PBST) solution and 100 μ l of 0.5 % gelatin/PBST was added for blocking at room temperature for 2 hours. After washing three times with PBST, 100 μ l of a sample diluted with PBS or 100 μ l of human Plasma IgG standard solution or IgM standard solution (BioPur AG, Switzerland) of a pre-determined concentration was added and incubated at room temperature for 1 hour. After washing three times with PBST, 100 μ l of a peroxydase-labeled anti-human IgG antibody or anti-human IgM

antibody (Southern Biotechnology, Birmingham) which was diluted two thousandth with PBS was added and incubated at room temperature for 1 hour. After washing four times with PBST, $100~\mu l$ of a substrate, o-phenylenediamine dihydrochloride, was added for color development. After 30 minutes, the reaction was terminated by addition of 50 μl of 2 N HCl, and the absorption at 492 nm was measured with a microplate reader and the amount of the IgG and IgM was calculated from a standard curve of a standard solution.

2. Results

The results are shown in Figures 1 and 2. The compound (I-839) of the present invention has a selective suppressive effect on the IgE antibody production and the intensity was 2,000 times or more of that of the IgG production and 30,000 times or more of that of the IgM. The suppressive effects of the typical compounds on the antibody production are shown in Table 332.

Table 332

C	/ IC ₅₀ (ng/ml)			
Compound	IgE	IgG	IgM	
I-839	<0.00001	0.027	0.37	
I-892	<0.00001	<0.00001	>1	
I-121	< 0.0001	<0.0001	>1	
I-988	<0.00001	<0.00001	>1	
I-893	<0.00001	<0.0001	>1	

Experiment 6 Suppressive effect on antibody production of mouse spleen lymphocytes

1. Experimental method

1) Animals

BALB/c (nu/nu) mice were bought from Japan SLC, Inc. (Shizuoka) and 7 weeks old-male mice were used.

2) Medium

RPMI medium (Nissui Pharmaceutical Co., Ltd.) containing 10 % fetal bovine

serum (HyClone Lab.) inactivated at 56 °C for 30 minutes, penicillin (100 units/ml) and streptomycin (100 μ g/ml) (GIBCO) was used for experiments.

Compounds

Each of the compounds was dissolved in dimethylsulfoxide (Nakaraitesk) at 2 μ g/ml and diluted with the medium to adjust a final concentration to 0.1 pg/ml -10 μ g/ml.

4) Mouse spleen lymphocytes

A spleen of mouse was taken out and put in a cultivating schale which was filled with Hanks' solution. The spleen was crushed and the cells were pushed out from the organ and filtered through a metal mesh (200 mesh). After the collected cell suspension was washed by centrifugation with sterile Hanks' solution (Nissui Pharmaceutical Co., Ltd.), sterile distilled water was added. After 30 seconds, an equal amount of twice-concentrated Hanks' solution was added for removal of contaminating erythrocytes. The cell suspension, filtered by a nylon mesh and washed by centrifugation, were used as mouse spleen lymphocytes for experiments.

Induction of the IgE antibody production by the B cell stimulation

In 96-well cultivating plate (Sumitomo Bakelite Company Limited) mouse spleen lymphocytes were inoculated 2 x 10⁵ cells per well. The compound of the present invention, lipopolysaccharide (DIFCO Lab., 2 µg/ml) and mouse recombinant interleukin-4 (IL-4) (Genzyme, 50 ng/ml) were added to the well and cultivated at 37 °C under 5 % CO₂ (0.2 ml/well). After the cultivation for 10 days, the amount of the antibody in a supernatant was quantified by ELISA method.

6) Quantification of the IgE antibody

A commercial mouse IgE EIA kit (Yamasa Shoyu Co., Ltd.) was used for the quantification of the IgE. The experiment followed an instruction manual and was carried out in triplicate to calculate the average.

7) Quantification of the IgG1, IgG2a and IgM antibodies

In 96-well plate 50 μl of 10 μg/ml Goat Anti-Mouse Ig (IgM+G+A, H+L) (Southern Biotechnology, Birmingham) was added and the plate was coated at 4 °C overnight. After the plate was washed twice with a PBST solution, 100 µl of 0.5 % gelatin/PBST was added and the plate was blocked at room temperature for 2 hours. After washing three times with PBST, 100 µl of culture supernatant which was diluted with PBS or 100 µl of an antibody standard solution (Mouse IgG1 standard, Mouse IgG2a standard. Mouse IgM standard, BETHYL Laboratories) of a pre-determined concentration was added and incubated for 1 hour. After washing three times with PBST, 100 ul of diluted solution of alkalinephosphatase-labeled anti-mouse IgG1, IgG2a or IgM antibody (Southern Biotechnology, Birmingham) was added and incubated at room temperature for 1 hour. After washing four times with PBST, a substrate, pnitrophenyl phosphate disodium, was added, and after 30 minutes-incubation period, after 5 N-NaOH was added to stop the reaction. The absorption at 405 nm was measured with a microplate reader, and the amount of the antibody was calculated from the standard curve. For the dilution of the mouse sample and the standard solution was used 10 % FCS/PBS.

2. Results

The results are shown in Figure 3. The figure shows that the compound (I-967) has a suppressive effect on the IgG1, IgG2a and IgM antibodies production only at 1000 ng/ml or more but has a dose-dependent suppressive effect on the IgE production at 0.01 ng/ml or more. In Table 333 the suppressive effects of the representative compounds on the IgE, IgM, IgG1 and IgG2a production are shown.

Table 333

C	IC ₅₀ (ng/ml)			
Compound	IgE	IgG1	IgG2a	IgM
I -73	0.044	2600	4900	4200
I -963	0.00026	510	3600	3500
I -967	0.1	3500	3600	>10000

Experiment 7 Suppressive effect on bronchial inflammatory cell infiltration by inhalation of antigen

1. Experimental method

1) Animals

BALB/c mice bought from Japan SLC, Inc. (Shizuoka) (female, 8-11 weeks old) were used for experiments.

2) Sensitizing and challenge of antigen

For immunizing, 0.2 ml of a suspension of 2 µg of ovalbumin (OVA; Grade V, SIGMA) and 2 mg of aluminium hydroxide gel in physiological saline was intraperitoneally injected. After 2 weeks, 0.2 ml of a solution of 2 µg of OVA in physiological saline was intraperitoneally injected for a booster. After 1 week, each of mice was put in a nebulizing container (an airtight polycarbonate container, 24.5 cm in inner diameter and 20 cm in effective inner height, equipped with 12 cylindrical tubes of 4.8 cm in inner diameter and 12 cm in height) and made inhale a solution of 5 % ovalbumin (Grade III, SIGMA) in physiological saline for 20 minutes with an ultrasonic neblizer (Omron Tateisi Elec-Tronics co., NE-U12) for the challenge of antigen.

3) Administration of the compound of the present invention

The compound (I-963) of the present invention was dissolved in N, N-dimethylacetoamide (Nakaraitesk) and diluted one twentieth with miglyol 812 neutral oil (Mitsuba Trading Co., Ltd.) and the solution was orally administered to mice at 40 mg/kg. The administration was continued for 9 days from the booster day to the day before broncho-alveolar lavage.

4) Broncho-alveolar lavage (BAL)

After 48 hours of the challenge of antigen, the mice were exsanguinated from hearts under ether anesthetic, and the trachea was then cannulated. 0.3 ml of PBS were injected into the lungs and collected, and reinjected four times more (total 1.5 ml).

5) Measurement of the total cell number in BAL solution and classification of inflammatory cells

After calculation of the total cell number by coloring of a part of BAL solution with Türk solution, cells in BAL solution were put on a slide glass with cytospin (SHANDON) for May-Grünwald-Giemsa (MERCK) staining. Under a microscope, 500 cells were classified to a macrophage, an eosinophil, a neutrophil and a lymphocyte and a proportion of each type of the cells was calculated. The number of each type of the cells was calculated by a multiplication of its proportion and the total cell number.

2. Results

The results are shown in Figure 4. As shown in the figure, the compound (I-963) of the present invention significantly suppresses increasing number of eosinophils and neutrophils by the challenge of antigen.

Experiment 8 Suppressive effect on the cytokine production of a mouse T cell strain EL-4

In 48-well plate were added 2 x 10⁵ mouse T cell strain EL-4 which were suspended in 0.2 ml of 1 % fetal bovine serum-added RPMI 1640 medium (2 mM of sodium bicarbonate, 50 units/ml of penicillin, 50 µg/ml of streptomycin and 5 x 10⁻⁵ M of 2-mercaptoethanol were added) and the compound of the present invention of a predetermined concentration. TPA was added as a cell stimulater at a final concentration of 10 ng/ml to adjust a final volume of each well to 0.4 ml. Each compound of the present invention was dissolved in DMSO and diluted with the above RPMI 1640 medium, and then for added at a final concentration of 100 ng/ml or less. The cells in the 48-well plate were cultivated in an incubator keeping the humidity 100 %, carbon dioxide 5 % and air 95 % at 37 °C for 24 hours to collect a supernatant of each well. The amount of IL-2, IL-4 and IL-5 released in the medium of each well were measured with

the ELISA kit (Amersham K. K.) to be taken as an index of the cytokine production of the cells. TPA free group (-TPA) was used as a control. The results are shown in Table 334.

Table 334

	IC ₅₀ (ng/ml)		
Compound	IL-2	IL-4	IL-5
I-4	>500	14	120
I-37	>500	7	110
I-39	1300	7	130
I-70	>2000	0.2	1000
I-73	500	20	15
I-83	>10000	140	1000
I-128	>10000	140	450
I-148	>10000	100	11000
I-157	>10000	170	>10000
I-189	>10000	100	10000
I-190	>100	7	10
I-202	>2000	<20	<20
I-209	>200	14	12
I-213	>1000	25	23
I-218	>1000	4.8	30
I-220	>1000	150	720
I-223	1000	16	45
I-226	880	17	300
I-228	>1000	21	30
I-229	>1000	.42	80
I-230	>1000	13	20
I-231	>500	9.6	9.2
I-233	>1000	12	3.8
I-237	>100	17	100

I-238	>1000	35	>1000
I-239	>1000	54	900
I-242	>1000	100	880
I-243	>500	63	>550
I-279	>1000	38	90
I-282	>500	<5	130
I-292	>1000	72	600
I-296	>1000	70	47
I-301	500	<10	120
I-302	>1000	25	280
I-305	>1000	10	340
I-307	>1000	52	23
I-309	>500	29 ′	10
I-318	>1000	68	58
I-323	>1000	230	24
I-368	>1000	72	380
I-375	>1000	200	>1000
I-379	>1000	88	>1000
I-386	>1000	68	40
I-387	>1000	75	40
I-390	>1000	200	160
I-392	>1000	50	>1000
I-395	>1000	1-10	>1000
I-403	>1000	. 13	>1000
I-720	>500	6	110
		· · · · · · · · · · · · · · · · · · ·	

Formulation Example 1

The compound of the present invention	15 mg
Starch	15 mg
Lactose	15 mg
Crystalline cellulose	19 mg
Polyvinyl alcohol	3 mg
Distilled water	30 ml
Calcium stearate	3 mg

After all of the above ingredients except for calcium stearate were uniformly mixed, the mixture was crushed and granulated, and dried to obtain a suitable size of granules.

After calcium stearate was added to the granules, tablets were formed by compression molding.

Industrial Applicability

As indicated in the above experiments, the compound of the present invention has a potent immunosuppressive and/or anti-allergic activity. The compound of the present invention and a substance which has the same activity as the compound of the present invention are very useful for a selective suppressor of the IgE production, an immunosuppressive agent and/or an anti-allergic agent.